



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"EFFICACY OF PASSIVE ULTRASONIC IRRIGATION IN THE REMOVAL  
OF THREE DIFFERENT INTRACANAL MEDICAMENTS - AN IN VITRO  
STUDY"**



By

**Dr. GANGARAJU SHAKAPURAM**

*Dissertation Submitted to the*  
**Dr. N.T.R. University of Health Sciences,**  
**Vijayawada, Andhra Pradesh.**

*In Partial Fulfilment of the requirements for the degree of*

**MASTER OF DENTAL SURGERY**

*In the speciality of*

**CONSERVATIVE DENTISTRY AND ENDODONTICS**

**MEGHNA INSTITUTE OF DENTAL SCIENCES**

**NIZAMABAD- 503003**

**TELANGANA STATE**

**2014-2017**

1

*Pankaj R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

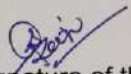
Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "EFFICACY OF PASSIVE ULTRASONIC IRRIGATION IN THE REMOVAL OF THREE INTRACANAL MEDICAMENTS- AN IN VITRO STUDY." is a bonafide and genuine research work carried out by me under the guidance of Dr. K. Nanda kumar, Professor & HOD, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 14-12-2016

Place: Nizamabad

  
Signature of the candidate

Dr. . GANGARAJU SHAKAPURAM



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "**EFFICACY OF PASSIVE  
ULTRASONIC IRRIGATION IN THE REMOVAL OF THREE DIFFERENT  
INTRACANAL MEDICAMENTS – AN IN VITRO STUDY**"

is a bonafide research work done by **Dr.GANGARAJU SHAKAPURAM** in  
partial fulfilment of the requirement for the degree of **Master of Dental Surgery**  
in Department of Conservative Dentistry and Endodontics.

Date: 14-12-2016

Place: Nizamabad

*handa*

Signature of the Guide

**Dr. K. Nanda Kumar**

Dean, Professor & HOD  
Department Of Conservative Dentistry  
and Endodontics

*Pankaj*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. GANGARAJU SHAKAPURAM** bearing registration No: D149601022 pursuing post graduation from 2014 to 2017 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute of Dental Sciences, Nizamabad, submitted the dissertation entitled "**EFFICACY OF PASSIVE ULTRASONIC IRRIGATION IN THE REMOVAL OF THREE DIFFERENT INTRACANAL MEDICAMENTS - AN IN VITRO STUDY**" which is the original work done by him, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

*handa*  
**Dr. K. Nanda Kumar, M.D.S.**  
Dean, Professor & HOD,  
Department of Conservative Dentistry  
and Endodontics,  
Meghna institute of Dental sciences  
Nizamabad, Telangana.

*Pratap P.*  
**Dr. M. Pratap Kumar, M.D.S.**  
Principal,  
Meghna Institute of Dental Science,  
Nizamabad, Telangana.

Date: 14-12-2016

Date: 14-12-2016

Place: Nizamabad

Place: Nizamabad

IV

*Pratap P.*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"COMPARATIVE EVALUATION OF DENTINAL MICROCRACK  
FORMATION DURING ROOT CANAL PREPARATION BY USING THREE  
DIFFERENT NITI ROTARY SYSTEMS - AN IN VITRO STUDY"**



By

Dr. SWAPNEEL VAIRAGARE

*Dissertation Submitted to the*  
Dr. N.T.R. University of Health Sciences,  
Vijayawada, Andhra Pradesh.

*In Partial Fulfilment of the requirements for the degree of*

**MASTER OF DENTAL SURGERY**

*In the speciality of*

**CONSERVATIVE DENTISTRY AND ENDODONTICS**

**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA STATE**

2014-2017

I

*Pankaj R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "COMPARATIVE EVALUATION OF DENTINAL MICROCRACK FORMATION DURING ROOT CANAL PREPARATION BY USING THREE DIFFERENT NITI ROTARY SYSTEMS - AN IN VITRO STUDY" is a bonafide and genuine research work carried out by me under the guidance of Dr. P.SAMBASHIVA RAO, Professor, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 27/12/16  
Place: NIZAMABAD

Signature of the candidate  
Dr. SWAPNEEL VAIRAGARE



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “COMPARATIVE EVALUATION OF DENTINAL MICROCRACK FORMATION DURING ROOT CANAL PREPARATION BY USING THREE DIFFERENT NiTi ROTARY SYSTEMS - AN IN VITRO STUDY” is a bonafide research work done by **Dr.SWAPNEEL VAIRAGARE** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Conservative Dentistry and Endodontics.

Date:

Place:

Signature of the Guide

**Dr. P.SAMBASHIVA RAO**

Professor , Department of  
Conservative Dentistry& Endodontics

*P. Sambashiva Rao*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr.SWAPNEEL VAIRAGARE** bearing registration No: D149601024 pursuing post graduation from 2014 to 2017 in the Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad, submitted the dissertation entitled "COMPARATIVE EVALUATION OF DENTINAL MICROCRACK FORMATION DURING ROOT CANAL PREPARATION BY USING THREE DIFFERENT NITI ROTARY SYSTEMS - AN IN VITRO STUDY" which is the original work done by him, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

*handa*  
**Dr. K. Nanda Kumar, M.D.S.**  
Dean, Professor & HOD,  
Department of Conservative Dentistry  
and Endodontics,  
Meghna institute of Dental sciences  
Nizamabad, Telangana.

**Dr. M. Pratap Kumar, M.D.S.**  
Principal,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

Date: 27/12/16

Place: NIZAMABAD

Date: 27/12/16

Place: NIZAMABAD

IV

*Pratapa*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

"COMPARATIVE EVALUATION OF SETTING TIME AND CALCIUM ION  
RELEASE OF WHITE MTA ANGELUS AFTER ADDITION OF ZINC OXIDE  
AND CALCIUM CHLORIDE – AN INVITRO STUDY "



By

Dr. MIR RAHEEL MUJTABA

2017-2020

*Dissertation Submitted to the*

Dr. K.N.R. University of Health Sciences,  
Warangal, Telangana.

*In Partial Fulfilment of the requirements for the degree of*

MASTER OF DENTAL SURGERY

*In the speciality of*

CONSERVATIVE DENTISTRY AND ENDODONTICS

MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA STATE

*Raheel*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

Dr. KNR UNIVERSITY OF HEALTH SCIENCES,  
Telangana

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**COMPARATIVE EVALUATION OF SETTING TIME AND CALCIUM ION RELEASE OF WHITE MTA ANGELUS AFTER ADDITION OF ZINC OXIDE AND CALCIUM CHLORIDE – AN INVITRO STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr. M. PRATAP KUMAR**, Professor & HOD, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 27/12/19

Place: Nizamabad

Signature of the candidate

Dr. MIR RAHEEL MUJTABA

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503 003, TELANGANA STATE.



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "**COMPARATIVE EVALUATION OF SETTING TIME AND CALCIUM ION RELEASE OF WHITE MTA ANGELUS AFTER ADDITION OF ZINC OXIDE AND CALCIUM CHLORIDE – AN INVITRO STUDY**" is a bonafide research work done by **Dr. MIR RAHEEL MUJTABA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Conservative Dentistry and Endodontics.

Date: 27/12/19

Place: Nizamabad

*Pratap*

Signature of the Guide

**Dr. M.PRATAP KUMAR, M.D.S**

Professor & HOD

Department Of Conservative Dentistry  
and Endodontics

*Pratap*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. MIR RAHEEL MUJTABA** bearing registration No: **17206107015D** pursuing post graduation from 2017 to 2020 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute of Dental Sciences, Nizamabad, submitted the dissertation entitled **"COMPARATIVE EVALUATION OF SETTING TIME AND CALCIUM ION RELEASE OF WHITE MTA ANGELUS AFTER ADDITION OF ZINC OXIDE AND CALCIUM CHLORIDE – AN INVITRO STUDY "** which is the original work done by him, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

Date: 27/12/19

Place: Nizamabad

*Pratap R.*

**Dr. M. PRATAP KUMAR, M.D.S.**

Principal, Professor and HOD  
Meghna Institute of Dental Science,  
Nizamabad, Telangana.

*Pratap R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

" COMPARISON OF SHEAR BOND STRENGTH OF COMPOSITE TO  
DEEP DENTIN FOLLOWING SURFACE PRE-TREATMENT WITH  
VARIOUS NATURAL COLLAGEN CROSSLINKING AGENTS.  
- AN IN VITRO STUDY"



By

Dr. P. MAYURI SAILAJA

*Dissertation Submitted to the*  
Dr. N.T.R. University of Health Sciences,  
Vijayawada, Andhra Pradesh.

*In Partial Fulfilment of the requirements for the degree of*

MASTER OF DENTAL SURGERY

*In the speciality of*

CONSERVATIVE DENTISTRY AND ENDODONTICS

MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA STATE  
2015-2018

*Potkura*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "COMPARISON OF SHEAR BOND STRENGTH OF COMPOSITE TO DEEP DENTIN FOLLOWING SURFACE PRE-TREATMENT WITH VARIOUS NATURAL COLLAGEN CROSSLINKING AGENTS - AN IN VITRO STUDY." is a bonafide and genuine research work carried out by me under the guidance of Dr. K. Nanda Kumar, Professor & HOD, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 11/12/17

Place: Nizamabad

P. Mayuri Sailaja  
Signature of the candidate

Dr. P. MAYURI SAILAJA



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “COMPARISON OF SHEAR BOND STRENGTH OF COMPOSITE TO DEEP DENTIN FOLLOWING SURFACE PRE-TREATMENT WITH VARIOUS NATURAL COLLAGEN CROSSLINKING AGENTS - AN IN VITRO STUDY.” is a bonafide research work done by **Dr. P. MAYURI SAILAJA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Conservative Dentistry and Endodontics.

Date: 11/12/17

Place: Nizamabad

Signature of the Guide

**Dr. K. Nanda Kumar**

Dean, Professor & HOD  
Department Of Conservative Dentistry  
and Endodontics

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD






# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

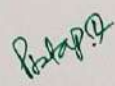
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. P.MAYURI SAILAJA** bearing registration No: D159601077 pursuing post graduation from 2015 to 2018 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute of Dental Sciences, Nizamabad, submitted the dissertation entitled "**COMPARISON OF SHEAR BOND STRENGTH OF COMPOSITE TO DEEP DENTIN FOLLOWING SURFACE PRE-TREATMENT WITH VARIOUS NATURAL COLLAGEN CROSSLINKING AGENTS - AN IN VITRO STUDY.**" which is the original work done by her, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

  
**Dr. K. Nanda Kumar, M.D.S.**

Dean, Professor & HOD,  
Department of Conservative Dentistry  
and Endodontics,  
Meghna Institute of Dental sciences  
Nizamabad, Telangana.

  
**Dr. M. Pratap Kumar, M.D.S.**

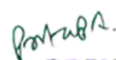
Principal,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

Date: 11/12/17

Place: Nizamabad

Date: 11/12/17

Place: Nizamabad



**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

"COMPARISON OF EFFECT OF VARIOUS IRRIGATING SOLUTIONS ON  
PUSH-OUT BOND STRENGTH OF C-POINT AND BIO CERAMIC  
OBTURATION SYSTEM-AN IN VITRO STUDY "



By

Dr. SUPRIYA KOMMINENI

*Dissertation Submitted to the*  
Dr. N.T.R. University of Health Sciences,  
Vijayawada, Andhra Pradesh.

*In Partial Fulfilment of the requirements for the degree of*

MASTER OF DENTAL SURGERY

*In the speciality of*

CONSERVATIVE DENTISTRY AND ENDODONTICS

MEGHNA INSTITUTE OF DENTAL SCIENCES

NIZAMABAD- 503003

TELANGANA STATE

2015-2018

*Potluri*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "COMPARISON OF EFFECT OF VARIOUS IRRIGATING SOLUTIONS ON PUSH-OUT BOND STRENGTH OF C-POINT AND BIOCERAMIC OBTURATION SYSTEM-AN IN VITRO STUDY" is a bonafide and genuine research work carried out by me under the guidance of Dr. M. Pratap Kumar, Professor, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 11/12/2017

Place: NIZAMABAD

Signature of the candidate

Dr. SUPRIYA KOMMINENI



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled " COMPARISON OF EFFECT OF VARIOUS IRRIGATING SOLUTIONS ON PUSH-OUT BOND STRENGTH OF C-POINT AND BIO CERAMIC OBTURATION SYSTEM-AN IN VITRO STUDY " is a bonafide research work done by **Dr.SUPRIYA KOMMINENI** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Conservative Dentistry and Endodontics.

Date: 11/12/2017  
Place: NIZAMABAD

Signature of the Guide

**Dr. M. Pratap Kumar, M.D.S**

Professor  
Department Of Conservative Dentistry  
and Endodontics

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. SUPRIYA KOMMINENI** bearing registration No: D159601079 pursuing post graduation from 2015 to 2018 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute of Dental Sciences, Nizamabad, submitted the dissertation entitled **" COMPARISON OF EFFECT OF VARIOUS IRRIGATING SOLUTIONS ON PUSH-OUT BOND STRENGTH OF C-POINT AND BIOCERAMIC OBTURATION SYSTEM-AN IN VITRO STUDY "** which is the original work done by her, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

*handa*

**Dr. K. Nanda Kumar, M.D.S.**  
Dean, Professor & HOD,  
Department of Conservative Dentistry  
and Endodontics,  
Meghna institute of Dental sciences  
Nizamabad, Telangana.

*Pratap*

**Dr. M. Pratap Kumar, M.D.S.**  
Principal,  
Meghna Institute of Dental Science,  
Nizamabad, Telangana.

Date: *11/12/17*

Place: *NIZAMABAD*

Date: *11/12/2017*

Place: *NIZAMABAD*

*Pratap*



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## " THE EFFECT OF MOUTH RINSES ON THE COLOUR STABILITY OF NANO COMPOSITE RESIN MATERIAL - AN IN VITRO STUDY"



By

Dr. B.PREETHI

*Dissertation Submitted to the*  
Dr. K.N.R. University of Health Sciences,  
WARANGAL, TELANGANA.

*In Partial Fulfilment of the requirements for the degree of*

MASTER OF DENTAL SURGERY

*In the speciality of*

CONSERVATIVE DENTISTRY AND ENDODONTICS

MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA STATE  
2016-2019

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled " **THE EFFECT OF MOUTH RINSES ON THE COLOUR STABILITY OF NANO COMPOSITE RESIN MATERIAL - AN IN VITRO STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr. K. Nanda Kumar**, Professor & HOD, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 19/11/18

Place: Nizamabad.

Signature of the candidate

Dr.B.PREETHI





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled " THE EFFECT OF MOUTH RINSES ON THE COLOUR STABILITY OF NANO COMPOSITE RESIN MATERIAL - AN IN VITRO STUDY" is a bonafide research work done by **Dr. B.PREETHI** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Conservative Dentistry and Endodontics.

Date: 19/11/18

Place: Nizamabad.

*hand*  
**Dr. K. NANDA KUMAR**  
DEAN.  
Signature of the Guide  
Meghna Institute of Dental Science  
Mallaram (V), Nizamabad  
**Dr. K. Nanda Kumar**

Dean, Professor & HOD  
Department Of Conservative Dentistry  
and Endodontics



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. B.PREETHI** bearing registration No: **16206107018D** pursuing post graduation from 2016 to 2019 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute of Dental Sciences, Nizamabad, submitted the dissertation "**THE EFFECT OF MOUTH RINSES ON THE COLOUR STABILITY OF NANO COMPOSITE RESIN MATERIAL - AN IN VITRO STUDY**" which is the original work done by her, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

*Handwritten signature: Dr. K. Nanda Kumar*  
**Dr. K. Nanda Kumar, M.D.S.**  
Dean, Professor & HOD,  
Department of Conservative Dentistry  
and Endodontics,  
Meghna Institute of Dental sciences  
Nizamabad, Telangana.

*Handwritten signature: Dr. M. Pratap Kumar*  
**Dr. M. Pratap Kumar, M.D.S.**  
Principal,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

Date: 19/11/18

Place: Nizamabad

Date: 19/11/18

Place: Nizamabad.





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

"COMPARATIVE EVALUATION OF SETTING TIME AND CALCIUM ION  
RELEASE OF WHITE MTA ANGELUS AFTER ADDITION OF ZINC OXIDE  
AND CALCIUM CHLORIDE – AN INVITRO STUDY "



By

Dr. MIR RAHEEL MUJTABA

2017-2020

*Dissertation Submitted to the*

Dr. K.N.R. University of Health Sciences,  
Warangal, Telangana.

*In Partial Fulfilment of the requirements for the degree of*

MASTER OF DENTAL SURGERY

*In the speciality of*

CONSERVATIVE DENTISTRY AND ENDODONTICS

MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA STATE

*Raheel*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in


Dr. KNR UNIVERSITY OF HEALTH SCIENCES,  
Telangana

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "COMPARATIVE EVALUATION OF SETTING TIME AND CALCIUM ION RELEASE OF WHITE MTA ANGELUS AFTER ADDITION OF ZINC OXIDE AND CALCIUM CHLORIDE – AN INVITRO STUDY " is a bonafide and genuine research work carried out by me under the guidance of Dr. M. PRATAP KUMAR, Professor & HOD, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 27/12/19

Place: Nizamabad

  
Signature of the candidate

Dr. MIR RAHEEL MUJTABA

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503 003, TELANGANA STATE.



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "**COMPARATIVE EVALUATION OF SETTING TIME AND CALCIUM ION RELEASE OF WHITE MTA ANGELUS AFTER ADDITION OF ZINC OXIDE AND CALCIUM CHLORIDE – AN INVITRO STUDY**" is a bonafide research work done by **Dr. MIR RAHEEL MUJTABA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Conservative Dentistry and Endodontics.

Date: 27/12/19

Place: Nizamabad

*Pratap*

Signature of the Guide

**Dr. M.PRATAP KUMAR, M.D.S**

Professor & HOD

Department Of Conservative Dentistry  
and Endodontics

*Pratap*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. MIR RAHEEL MUJTABA** bearing registration No: **17206107015D** pursuing post graduation from 2017 to 2020 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute of Dental Sciences, Nizamabad, submitted the dissertation entitled **"COMPARATIVE EVALUATION OF SETTING TIME AND CALCIUM ION RELEASE OF WHITE MTA ANGELUS AFTER ADDITION OF ZINC OXIDE AND CALCIUM CHLORIDE – AN INVITRO STUDY "** which is the original work done by him, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

Date: 27/12/19

Place: Nizamabad

*Pratap*

**Dr. M. PRATAP KUMAR, M.D.S.**

Principal, Professor and HOD  
Meghna Institute of Dental Science,  
Nizamabad, Telangana.

*Pratap*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

COMPARATIVE EVALUATION OF ANTIMICROBIAL EFFICACY OF  
DIFFERENT HERBAL PRODUCTS AND SODIUM HYPOCHLORITE  
AGAINST ENTEROCOCCUS FAECALIS.  
- AN INVITRO STUDY



By

Dr. K.SOWMYA

2018-2021

*Dissertation Submitted to the*

**Dr. K.N.R. University of  
Health Sciences, Warangal,  
Telangana.**

*In Partial Fulfilment of the requirements for the degree of*

**MASTER OF DENTAL SURGERY**

*In the specialty of*

**CONSERVATIVE DENTISTRY AND  
ENDODONTICS**

**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA STATE**

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled " COMPARATIVE EVALUATION OF ANTIMICROBIAL EFFICACY OF DIFFERENT HERBAL PRODUCTS AND SODIUM HYPOCHLORITE AGAINST ENTEROCOCCUS FAECALIS - AN INVITRO STUDY " is a bonafide and genuine research work carried out by me under the guidance of **Dr. P.SAMBA SHIVA RAO**, Professor, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date:

Place: *Nizamabad.*

*Sowmya K.*  
Signature of the candidate  
**Dr.K.SOWMYA**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## MEGHNA INSTITUTE OF DENTAL SCIENCES

NIZAMABAD – 503003. TELANGANA.



### CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “COMPARATIVE EVALUATION OF ANTIMICROBIAL EFFICACY OF DIFFERENT HERBAL PRODUCTS AND SODIUM HYPOCHLORITE AGAINST ENTEROCOCCUS FAECALIS-AN INVITRO STUDY” is a bonafide research work done by **Dr.K.SOWMYA** in partial fulfillment of the requirement for the degree of **Master of Dental Surgery** in the Department of Conservative Dentistry And Endodontics.

Date:

Place: *Nizamabad.*

Signature of the Guide

**DR. P.SAMBA SHIVA RAO**  
**Professor**

Department Of Conservative  
Dentistry and Endodontics

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that Dr.K.SOWMYA bearing registration No:18206107003D pursuing post-graduation from 2018 to 2021 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute Of Dental Sciences, Nizamabad, submitted the dissertation entitled "COMPARATIVE EVALUATION OF ANTIMICROBIAL EFFICACY OF DIFFERENT HERBAL PRODUCTS AND SODIUM HYPOCHLORITE AGAINST ENTEROCOCCUS FAECALIS.-AN INVITRO STUDY" is the original work done by her, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

*Pratap*  
**PRINCIPAL**

**Dr. M. PRATAP KUMAR, M.D.S.,**  
Principal & Professor,  
Nizamabad.

HOD, Department of Conservative  
dentistry and Endodontics  
Meghna Institute of Dental Sciences,  
Nizamabad.  
Telangana.

Date:

Place:

*Pratap*  
**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## “THE EVALUATION OF COMPRESSIVE STRENGTH OF DIFFERENT POSTERIOR BULKFILL COMPOSITES - AN IN VITRO STUDY”



By

Dr. SAIKOUSALYA J

REG. NO - 19206107003D

*Dissertation Submitted to the*

Dr. K.N.R University of Health Sciences,  
WARANGAL, TELANGANA.

*In Partial Fulfilment of the requirements for the degree of*  
MASTER OF DENTAL SURGERY

*In the specialty of*  
CONSERVATIVE DENTISTRY AND ENDODONTICS  
MEGHNA INSTITUTE OF DENTAL SCIENCES

NIZAMABAD- 503003

TELANGANA STATE

2019-2022

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

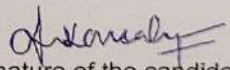
Dr. K.N.R UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "THE EVALUATION OF COMPRESSIVE STRENGTH OF DIFFERENT POSTERIOR BULKFILL COMPOSITES – AN IN VITRO STUDY" is a bonafide and genuine research work carried out by me under the guidance of Dr. SAMBA SHIVA RAO POLA, Professor, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 30/12/21

Place: Nizamabad

  
Signature of the candidate

Dr. SAIKOUSALYA J





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "THE EVALUATION OF  
COMPRESSIVE STRENGTH OF DIFFERENT POSTERIOR BULKFILL  
COMPOSITES - AN IN VITRO STUDY" is a bonafide research work done by  
Dr. SAIKOUSALYA J in partial fulfilment of the requirement for the degree of  
Master of Dental Surgery in Department of Conservative Dentistry and  
Endodontics.

Date: 20/12/21

Place: Nizamabad

Signature of the Guide

Dr. SAMBA SHIVA RAO POLA, MDS

Professor

Department Of Conservative Dentistry  
and Endodontics.

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## CERTIFICATE

This is to certify that **Dr. SAIKOUSALYA J** bearing registration No: **19206107003D** pursuing post-graduation from 2019 to 2022 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute of Dental Sciences, Nizamabad, submitted the **"THE EVALUATION OF COMPRESSIVE STRENGTH OF DIFFERENT POSTERIOR BULKFILL COMPOSITES – AN IN VITRO STUDY"** which is the original work done by her, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

### PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

*Pratap*

**Dr. M. Pratap Kumar, M.D.S.**

Principal, Professor & HOD,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences.  
Nizamabad, Telangana.

*PS/Rao*

**Dr. Samba Shiva Rao Pola, M.D.S.**

Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental sciences.  
Nizamabad, Telangana.

Date: *30/12/21*

Place: *Nizamabad*

Date: *30/12/21*

Place: *Nizamabad*

*Pratap*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. SUPRIYA KOMMINENI** bearing registration No: D159601079 pursuing post graduation from 2015 to 2018 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute of Dental Sciences, Nizamabad, submitted the dissertation entitled "**COMPARISON OF EFFECT OF VARIOUS IRRIGATING SOLUTIONS ON PUSH-OUT BOND STRENGTH OF C-POINT AND BIOCERAMIC OBTURATION SYSTEM-AN IN VITRO STUDY**" which is the original work done by her, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

**Dr. K. Nanda Kumar, M.D.S.**  
Dean, Professor & HOD,  
Department of Conservative Dentistry  
and Endodontics,  
Meghna institute of Dental sciences  
Nizamabad, Telangana.

**Dr. M. Pratap Kumar, M.D.S.**  
Principal,  
Meghna Institute of Dental Science,  
Nizamabad, Telangana.

Date: 11/12/17

Place: NIZAMABAD

Date: 11/12/2017

Place: NIZAMABAD

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"A STUDY OF 2 BONE PLATING METHODS FOR THE FRACTURES OF  
MANDIBULAR SYMPHYSIS/BODY"**



By

**Dr. M.A.ATEEQ**

Dissertation Submitted to

**Dr. NTR University of Health Sciences,**

**Vijayawada, Andhra Pradesh.**

In partial fulfilment of the requirements for the

Degree of

**MASTER OF DENTAL SURGERY**

*In the specialty of*

**ORAL AND MAXILLOFACIAL SURGERY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003,**

**TELANGANA**

**2015-2018**

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in



Dr. N.T.R University of Health Sciences, Vijayawada  
Andhra Pradesh.

## CERTIFICATE

Name of the candidate: Dr. M.A.ATEEQ

Registration number: 6/60.

Period of registration for postgraduate course: 2015-2018

Branch: ORAL AND MAXILLOFACIAL SURGERY

Institution: Meghna Institute of Dental Sciences, Mallaram, Nizamabad,  
Telangana.

Title: "A STUDY OF 2 BONE PLATING METHODS FOR THE FRACTURES  
OF MANDIBULAR SYMPHYSIS/BODY"

This is to certify that this is an original work done by the candidate and  
no part of this work was used as basis for obtaining any other degree or  
publication or part thereof.

Date: 15/12/17

Place: Nizamabad

Signature of the candidate

Dr.M.A.ATEEQ

Signature of the Guide

Dr. M.SURESH KUMAR, M.D.S.

Professor & Head

Meghna Institute of Dental Sciences

Nizamabad.

Meghna Institute of Dental Sciences

Mallaram (V), Nizamabad. (A.P)

Seal & Signature of the HOD

Dr.M. SURESH KUMAR, M.D.S.

Professor & Head

Meghna Institute of Dental Sciences

Nizamabad.

Meghna Institute of Dental Sciences

Mallaram (V), Nizamabad. (A.P)

Seal & Signature of the Principal

Dr. M. PRATAP KUMAR, M.D.S.,

Meghna Institute of Dental Sciences

Nizamabad.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

Seal & Signature of Dean

Dr.K.NANDA KUMAR, M.D.S.,

Meghna Institute of Dental sciences

Nizamabad

**Dr. K. NANDA KUMAR**  
DEAN.  
Meghna Institute of Dental Science  
Mallaram (V), Nizamabad

Pratap

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in

## DIAGNOSIS AND TREATMENT PLANNING IN ORTHOGNATHIC SURGERY



by

Dr. SRIKANTH PULIGILLA  
(2015-2018)

*Library Dissertation submitted to the*

*Dr.NTR UNIVERSITY OF HEALTH SCIENCES, A.P.*

*In partial fulfillment of the requirements*

*For the degree of*

**MASTER OF DENTAL SURGERY**

*in the speciality of*

**ORAL AND MAXILLOFACIAL SURGERY**



DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY  
MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD-503003.TELANGANA

*Potkura.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Declaration

I do here by declare that this Library dissertation entitled  
“**DIAGNOSIS AND TREATMENT PLANNING IN ORTHOGNATHIC  
SIRGERY**” is a bonafide and genuine research work carried out by me under  
the guidance of **Dr. SURESH KUMAR, MDS** , HOD, Department of ORAL  
AND MAXILLOFACIAL SURGERY, Meghna Institute of Dental Sciences,  
Nizamabad, A.P.

**DR.SRIKANTH PULIGILLA**

Date:

Place: Nizamabad.

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate By The Guide

This is to certify that the Library dissertation entitled  
"DIAGNOSIS & TREATMENT PLANNING IN ORTHOGNATHIC  
SURGERY ", is the original work done by **Dr.SRIKANTH PULIGILLA**, in the  
Department of Oral and Maxillofacial Surgery, Meghna Institute of Dental Sciences,  
Nizamabad, as a requirement for the Degree of Master of Dental Surgery . This work  
was done under my personal guidance, supervision and to my satisfaction.

Guide:

**Dr.M.SURESH KUMAR**  
HOD & PROFESSOR,  
Department of Oral and Maxillofacial Surgery.  
Meghna Institute of Dental Sciences,  
Nizamabad.  
Telangana.

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## COMPARISON OF PHYSICS FORCEPS AND CONVENTIONAL EXTRACTION FORCEPS IN THERAPEUTIC EXTRACTION OF UPPER PREMOLARS



By

Dr. S. AKHIL REDDY

REG NO – 16204107013D

Dissertation Submitted to

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH AND SCIENCES,  
Warangal, Telangana.

In partial fulfilment of the requirements for the  
Degree of

MASTER OF DENTAL SURGERY

*In the specialty of*  
ORAL AND MAXILLOFACIAL SURGERY



MEGHNA INSTITUTE OF DENTAL SCIENCES,  
MALLARAM, NIZAMABAD-503003,  
TELANGANA  
2016-2019

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

"STANDARD THREE-DIMENSIONAL VERSUS LOCKING THREE  
DIMENSIONAL TITANIUM MINIPLATE FIXATION IN THE MANAGEMENT  
OF MANDIBULAR FRACTURES"



By  
Dr.Soumya Nelaturu

REG NO. 16204107015D

Dissertation Submitted to

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH AND SCIENCES,  
Warangal, Telangana.

In partial fulfilment of the requirements for the degree of

MASTER OF DENTAL SURGERY

*In the specialty of*  
ORAL AND MAXILLOFACIAL SURGERY



MEGHNA INSTITUTE OF DENTAL SCIENCES,  
MALLARAM, NIZAMABAD-503003,  
TELANGANA

2016-2019

*Potkura*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in



KALOJI NARAYANA RAO UNIVERSITY OF  
HEALTH SCIENCES, WARANGAL, TELANGANA

## CERTIFICATE

Name of the candidate: Dr. SOUMYA NELATURU

Registration number: 16204107015D

Period of registration for postgraduate course: 2016 - 2019

Branch: ORAL AND MAXILLOFACIAL SURGERY

Institution: Meghna Institute of Dental Sciences, Mallaram, Nizamabad, Telangana.

Title: "STANDARD THREE-DIMENSIONAL VERSUS LOCKING THREE DIMENSIONAL TITANIUM MINIPLATE FIXATION IN THE MANAGEMENT OF MANDIBULAR FRACTURES"

This is to certify that this is an original work done by the candidate and no part of this work was used as basis for obtaining any other degree or publication or part thereof.

Date:

Place: Nizamabad

Signature of the candidate

SOUMYA NELATURU

Signature of the Guide

Dr. M. SURESH KUMAR M.D.S.,

Professor & HOD

Meghna Institute of Dental Sciences  
Nizamabad.

Seal & Signature of the HOD

Dr. M. SURESH KUMAR M.D.S.,

Professor & Head

Meghna Institute of Dental Sciences  
Nizamabad.

Dr. K. NANDA KUMAR  
DEAN.

Seal & Signature of the Dean  
Meghna Institute of Dental Science  
Mallaram (V), Nizamabad

Dr. K. NANDA KUMAR M.D.S.,

Director of Post Graduate studies

Meghna Institute of Dental Sciences  
Nizamabad

PRINCIPAL  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

Seal & Signature of the Principal

Dr. M. PRATHAP KUMAR M.D.S.,

Meghna Institute of Dental Sciences  
Nizamabad

Prathap

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

"WOUND HEALING WITH AND WITHOUT PLATELET RICH PLASMA  
AFTER EXTRACTION OF MANDIBULAR THIRD MOLAR: A  
COMPARATIVE PROSPECTIVE STUDY



By

Dr. BHUKYA SURAJ

REG N.O – 16204107014D

Dissertation Submitted to

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH AND SCIENCES,  
Warangal, Telangana.

In partial fulfilment of the requirements for the  
Degree of

MASTER OF DENTAL SURGERY

*In the speciality of*  
ORAL AND MAXILLOFACIAL SURGERY



MEGHNA INSTITUTE OF DENTAL SCIENCES,  
MALLARAM, NIZAMABAD-503003,  
TELANGANA

2016-2019

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in



KALOJI NARAYANA RAO UNIVERSITY OF  
HEALTH SCIENCES, WARANGAL, TELANGANA

## CERTIFICATE

Name of the candidate: Dr. BUKHYA SURAJ

Registration number: 16204107014D

Period of registration for postgraduate course: 2016 - 2019

Branch: ORAL AND MAXILLOFACIAL SURGERY

Institution: Meghna Institute of Dental Sciences, Mallaram, Nizamabad,  
Telangana.

Title: WOUND HEALING WITH AND WITHOUT PLATELET RICH PLASMA  
AFTER EXTRACTION OF MANDIBULAR THIRD MOLAR : A COMPARITIVE  
PROSPECTIVE STUDY

This is to certify that this is an original work done by the candidate and  
no part of this work was used as basis for obtaining any other degree or  
publication or part thereof.

Date: 17/11/18

Place: Nizamabad

Signature of the candidate

BUKHYA SURAJ

Signature of the Guide  
Dr. M. SURESH KUMAR M.D.S., Nizamabad (A.P)

Professor & HOD  
Meghna Institute of Dental Sciences  
Nizamabad.

Seal & Signature of the HOD

Dr. M. SURESH KUMAR M.D.S.,  
Professor & Head  
Meghna Institute of Dental Sciences  
Nizamabad.

Seal & Signature of the Dean  
Dr. K. NANDA KUMAR M.D.S.,  
Director of Post Graduate Studies  
Meghna Institute of Dental Sciences  
Nizamabad

Seal & Signature of the Principal  
Dr. M. PRATHAP KUMAR M.D.S.,  
Meghna Institute of Dental Sciences  
Nizamabad



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## NEUROLOGICAL DISORDERS



by

Dr. MOHAMMED FAISAL  
(2017-2020)

*Library Dissertation submitted to the*

*Dr.KNR UNIVERSITY OF HEALTH SCIENCES, T.S.*

*In partial fulfillment of the requirements*

*For the degree of*

**MASTER OF DENTAL SURGERY**

*in the speciality of*

**ORAL AND MAXILLOFACIAL SURGERY**



DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY  
MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD-503003.TELANGANA

*Principals*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the Library Dissertation entitled  
“NEUROLOGICAL DISORDERS” is the original work done by **Dr. MOHAMMED FAISAL**, in  
the Department of ORAL AND MAXILLOFACIAL SURGERY, Meghna Institute of  
Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental  
Surgery. This work was done under our personal guidance, supervision and to our  
satisfaction.

**Dr. M. SURESH KUMAR, M.D.S**  
Professor & HOD,  
Department of Oral and Maxillofacial  
Surgery, Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr. M. SURESH KUMAR, M.D.S**  
PROFESSOR & HOD,  
Department of Oral and Maxillofacial  
Surgery, Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr. M. PRATHAP KUMAR, M.D.S.**  
Principal, Professor and HOD,  
Department of Conservartive Dentistry &  
Endodontics.  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana .

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Declaration

I do here by declare that this Dissertation entitled "NEUROLOGICAL DISORDERS" is a bonafide and genuine research work carried out by me under the guidance of **Dr.M. SURESH KUMAR, MDS** , Professor& HOD, Department of ORAL AND MAXILLOFACIAL SURGERY, Meghna Institute of Dental Sciences, Nizamabad, Telangana.

**DR.MOHAMMED FAISAL**

Date:

Place: Nizamabad.

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate By The Guide

This is to certify that the Dissertation entitled "NEUROLOGICAL DISORDERS" is the original work done by **Dr. MOHAMMED FAISAL**, in the Department of Oral and Maxillofacial Surgery, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery . This work was done under my personal guidance, supervision and to my satisfaction.

Guide:

  
**Dr.M.SURESH KUMAR,M.D.S**

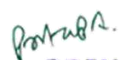
**PROFESSOR & HOD**

Department of Oral and Maxillofacial Surgery.

Meghna Institute of Dental Sciences,

Nizamabad.

Telangana.



**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

"EFFICACY OF DIODE LASERS IN MANAGEMENT OF ORAL  
SUBMUCOUS FIBROSIS"



By  
Dr. MERAJ SULTANA  
REG NO. 17204107011D

Dissertation Submitted to  
KALOJI NARAYANA RAO UNIVERSITY OF HEALTH AND SCIENCES,  
Warangal, Telangana.

In partial fulfilment of the requirements for the degree of  
MASTER OF DENTAL SURGERY

*In the specialty of*  
ORAL AND MAXILLOFACIAL SURGERY



MEGHNA INSTITUTE OF DENTAL SCIENCES,  
MALLARAM, NIZAMABAD-503003,  
TELANGANA  
2017-2020

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in



KALOJI NARAYANA RAO UNIVERSITY OF  
HEALTH SCIENCES, WARANGAL, TELANGANA

## CERTIFICATE

Name of the candidate: Dr. MERAJ SULTANA.

Registration number: 17204107011D

Period of registration for postgraduate course: 2017 - 2020

Branch: ORAL AND MAXILLOFACIAL SURGERY

Institution: Meghna Institute of Dental Sciences, Mallaram, Nizamabad,  
Telangana.

Title: "EFFICACY OF DIODE LASERS IN MANAGEMENT OF ORAL  
SUBMUCOUS FIBROSIS"

This is to certify that this is an original work done by the candidate and  
no part of this work was used as basis for obtaining any other degree or  
publication or part thereof.

Date:

Signature of the candidate

Place: Nizamabad

MERAJ SULTANA.

Signature of the Guide

**Dr. M. SURESH KUMAR** M.D.S.,

Professor & HOD

Meghna Institute of Dental Sciences  
Nizamabad

Seal & Signature of the HOD

**Dr. M. SURESH KUMAR** M.D.S.,

Professor & HOD.

Meghna Institute of Dental Sciences  
Nizamabad.

Seal & Signature of the Principal

**Dr. M. PRATHAP KUMAR** M.D.S.

Meghna Institute of Dental Sciences  
Nizamabad.

*Prathap*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate By The Guide

This is to certify that the Dissertation entitled "EFFICACY OF DIODE LASERS IN MANAGEMENT OF ORAL SUBMUCOUS FIBROSIS", is the original work done by **Dr. MERAJ SULTANA**, in the Department of Oral and Maxillofacial Surgery, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under my personal guidance, supervision and to my satisfaction.

Guide:

**Dr.M.SURESH KUMAR.**  
PROFESSOR & HOD,  
Department of Oral and Maxillofacial Surgery.  
Meghna Institute of Dental Sciences,  
Nizamabad.  
Telangana.

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Declaration by the Candidate

I do hereby declare that Dr. KNR University of Health Sciences, T.S.  
shall have the rights to preserve, use and disseminate this library  
dissertation in print / electronic format for academic / research purposes.

**DR. MERAJ SULTANA**

Date:

Place: Nizamabad

© Dr. KNR University of Health Sciences, T.S.

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"COMPARISON OF WOUND HEALING AFTER PLACEMENT OF  
PLALET RICH PLASMA AND PLATELET RICH FIBRIN IN  
MANDIBULAR THIRD MOLAR SURGERY:A COMPARATIVE  
PROSPECTIVE STUDY"**



By

**Dr. ANNADI SREEVAISHNAVI**

Dissertation Submitted to

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH AND SCIENCES,  
Warangal, Telangana.**

In partial fulfilment of the requirements for the

Degree of

**MASTER OF DENTAL SURGERY**

*In the specialty of*

**ORAL AND MAXILLOFACIAL SURGERY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003,**

**TELANGANA**

**2017-2020**

*Potkura.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in


## Certificate



This is to certify that the Dissertation entitled "COMPARISON OF WOUND HEALING AFTER PLACEMENT OF PLATELET RICH PLASMA AND PLATELET RICH FIBRIN IN MANDIBULAR THIRD MOLAR SURGERY: A COMPARATIVE PROSPECTIVE STUDY" is the original work done by **Dr. ANNADI SREEVAISHNAVI**, in the Department of ORAL AND MAXILLOFACIAL SURGERY, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance, supervision and to our satisfaction.

  
**Dr. M. SURESH KUMAR, M.D.S.**  
Professor & HOD  
Department of Oral and Maxillofacial Surgery  
Meghna Institute of Dental Sciences,  
Mallaram (V), Nizamabad,  
Nizamabad, Telangana

  
**Dr. AMARNATH KONDA**  
PROFESSOR  
Department of Oral and Maxillofacial Surgery  
Meghna Institute of Dental Sciences,

  
**Dr. M. PRATHAP, M.D.S.**  
Principal & Professor and HOD,  
Department of Conservative Dentistry & Endodontics.  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in




KALOJI NARAYANA RAO UNIVERSITY OF  
HEALTH SCIENCES, WARANGAL, TELANGANA


## CERTIFICATE

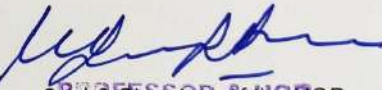
**Name of the candidate:** Dr. ANNADI SREEVAISHNAVI  
**Registration number:** 17204107012D  
**Period of registration for postgraduate course:** 2017 - 2020  
**Branch:** ORAL AND MAXILLOFACIAL SURGERY  
**Institution:** Meghna Institute of Dental Sciences, Mallaram, Nizamabad, Telangana.  
**Title:** COMPARISON OF WOUND HEALING AFTER PLACEMENT OF PLAELET RICH PLASMA AND PLATELET RICH FIBRIN IN MANDIBULAR THIRD MOLAR SURGERY:A COMPARATIVE PROSPECTIVE STUDY


This is to certify that this is an original work done by the candidate and no part of this work was used as basis for obtaining any other degree or publication or part thereof.

Date: 21.12.2019  
Place: Nizamabad

  
Signature of the candidate  
**ANNADI SREEVAISHNAVI**

  
Signature of the Guide  
**Dr. K. AMARNATH** M.D.S.,  
Professor  
Dept. of Oral Surgery  
Meghna Institute of Dental Sciences  
Nizamabad.

  
Seal & Signature of the HOD  
**DR. M. SURESH KUMAR** M.D.S.,  
Professor & Head  
Meghna Institute of Dental Sciences  
Nizamabad.

  
Seal & Signature of the Principal  
**Dr. M. PRATHAP KUMAR** M.D.S.,  
Meghna Institute of Dental Sciences  
Nizamabad





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in



KALOJI NARAYANA RAO UNIVERSITY OF  
HEALTH SCIENCES, WARANGAL, TELANGANA

## CERTIFICATE

Name of the candidate: Dr. ANNADI SREEVAISHNAVI

Registration number: 17204107012D

Period of registration for postgraduate course: 2017 - 2020

Branch: ORAL AND MAXILLOFACIAL SURGERY

Institution: Meghna Institute of Dental Sciences, Mallaram, Nizamabad,  
Telangana.

Title: COMPARISON OF WOUND HEALING AFTER PLACEMENT OF  
PLAETET RICH PLASMA AND PLATELET RICH FIBRIN IN MANDIBULAR  
THIRD MOLAR SURGERY: A COMPARATIVE PROSPECTIVE STUDY

This is to certify that this is an original work done by the candidate and  
no part of this work was used as basis for obtaining any other degree or  
publication or part thereof.

Date: 21.12.2019

Place: Nizamabad

Signature of the candidate

ANNADI SREEVAISHNAVI

Signature of the Guide  
Dr. K. AMARNATH M.S.,  
Professor  
Dept. of Oral Surgery  
M.I.D.S. NIZAMABAD.  
Meghna Institute of Dental Sciences  
Nizamabad.

Seal & Signature of the HOD  
Dr. M. SURESH KUMAR M.D.S.,  
Professor & Head  
Meghna Institute of Dental Sciences  
Nizamabad.

Seal & Signature of the Principal  
Dr. M. PRATHAP KUMAR M.D.S.,  
Meghna Institute of Dental Sciences  
Nizamabad

Principal  
PRINCIPAL  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## COPY RIGHT

### Declaration by the Candidate

I do hereby declare that Dr. KNR University of Health Sciences, T.S.  
shall have the rights to preserve, use and disseminate this library dissertation in  
print / electronic format for academic / research purposes.

*Sreevaishnavi*

DR.ANNADI SREEVAISHNAVI

Date: 21.12.2019

Place: Nizamabad

© Dr. KNR University of Health Sciences, T.S.

*Pankaj A.*

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

COMPARISON OF TISSUE ADHESIVE AND STERILE 3-0 SILK SUTURE FOR  
CLOSURE OF SURGICAL WOUND AFTER REMOVAL OF IMPACTED  
MANDIBULAR THIRD MOLARS: A CLINICAL AND MICROBIOLOGICAL STUDY



By

Dr. KODI SHRAVAN TEJA

Dissertation Submitted to

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH AND SCIENCES,

Warangal, Telangana.

In partial fulfilment of the requirements for the

Degree of

MASTER OF DENTAL SURGERY

*In the specialty of*

ORAL AND MAXILLOFACIAL SURGERY

MEGHNA INSTITUTE OF DENTAL SCIENCES,

MALLARAM, NIZAMABAD-503003,

TELANGANA

2018-2021

*Potkura*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

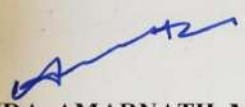
(Managed by : VELS EDUCATION SOCIETY)

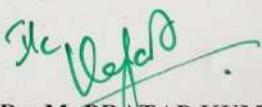
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the Dissertation entitled " **COMPARISON OF TISSUE ADHESIVE AND STERILE 3-0 SILK SUTURE FOR CLOSURE OF SURGICAL WOUND AFTER REMOVAL OF IMPACTED MANDIBULAR THIRD MOLARS: A CLINICAL AND MICROBIOLOGICAL STUDY**" is the original work done by **Dr. KODI SHRAVAN TEJA**, in the Department of ORAL MAXILLOFACIAL SURGERY, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance, supervision and to our satisfaction.

  
**Dr. KONDA. AMARNATH, M.D.S**  
Professor & HOD,  
Department of Oral & maxillofacial surgery.  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

  
**Dr. M. PRATAP KUMAR, M.D.S**  
Principal and Professor,  
Department of Conservative Dentistry  
& Endodontics.  
Meghna Institute Of Dental Sciences,  
Nizamabad, Telangana.  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Declaration

I do hereby declare that this Dissertation entitled  
"COMPARISON OF TISSUE ADHESIVE AND STERILE 3-0 SILK SUTURE FOR  
CLOSURE OF SURGICAL WOUND AFTER REMOVAL OF IMPACTED MANDIBULAR  
THIRD MOLARS: A CLINICAL AND MICROBIOLOGICAL STUDY" is a bonafide and  
genuine research work carried out by me under the guidance of Dr. KONDA  
AMARNATH, MDS, Professor & HOD, Department of Oral & Maxillofacial  
Surgery, Meghna Institute of Dental Sciences, Nizamabad, Telangana.

*K. Shravan Teja*

DR. KODI. SHRAVAN TEJA

Date: 22-01-2021

Place: Nizamabad.

*Potluri*

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## COPY RIGHT

### Declaration by the Candidate

I do hereby declare that **Kaloji Narayana Rao University of Health Sciences, Warangal**. Shall have the rights to preserve, use and disseminate this Dissertation in print / electronic format for academic / research purposes.

*K. Shravan Teja*

DR. KODI SHRAVAN TEJA

Date: 22-01-2021

Place: Nizamabad

© Kaloji Narayana Rao University of Health Sciences, Warangal

*Potluri R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

A COMPARATIVE EVALUATION OF IMMEDIATE IMPLANT PLACEMENT IN  
FRESH EXTRACTION SOCKET WITH AND WITHOUT THE USE OF  
PLATELET RICH FIBRIN: CLINICAL AND RADIOGRAPHIC STUDY



By

**Dr. B. SWETHA**

Dissertation Submitted to

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH AND SCIENCES,**

**Warangal, Telangana.**

In partial fulfilment of the requirements for the

Degree of

**MASTER OF DENTAL SURGERY**

*In the specialty of*

**ORAL AND MAXILLOFACIAL SURGERY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003,**

**TELANGANA**

**2018-2021**

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

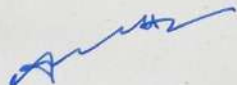
(Managed by : VELS EDUCATION SOCIETY)

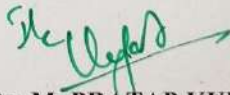
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the Dissertation entitled "**A COMPARATIVE EVALUATION OF IMMEDIATE IMPLANT PLACEMENT IN FRESH EXTRACTION SOCKET WITH AND WITHOUT THE USE OF PLATELET RICH FIBRIN: CLINICAL AND RADIOGRAPHIC STUDY**" is the original work done by **Dr. B. SWETHA**, in the Department of ORAL MAXILLOFACIAL SURGERY, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance, supervision and to our satisfaction.

  
**Dr. K. AMARNATH, M.D.S**  
Professor & HOD,  
Department of Oral & maxillofacial surgery,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana  
**PROFESSOR & HOD**  
**DEPT. OF ORAL MAXILLOFACIAL SURGERY**  
**Meghna Institute of Dental Sciences**  
**Mallaram (V), Nizamabad, (A.P)**

  
**Dr. M. PRATAP KUMAR, M.D.S.**  
Principal and Professor,  
Department of Conservative Dentistry  
& Endodontics.  
Meghna Institute Of Dental Sciences,  
Nizamabad, Telangana.

**PRINCIPAL**  
**Meghna Institute of Dental Sciences**  
**MALLARAM (V), NIZAMABAD.**

  
**PRINCIPAL**  
**Meghna Institute of Dental Sciences**  
**MALLARAM (V), NIZAMABAD.**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Declaration

I do hereby declare that this Dissertation entitled "A COMPARATIVE EVALUATION OF IMMEDIATE IMPLANT PLACEMENT IN FRESH EXTRACTION SOCKET WITH AND WITHOUT THE USE OF PLATELET RICH FIBRIN: CLINICAL AND RADIOGRAPHIC STUDY" is a bonafide and genuine research work carried out by me under the guidance of Dr. K. AMARNATH, MDS, Professor & HOD, Department of Oral & Maxillofacial Surgery, Meghna Institute of Dental Sciences, Nizamabad, Telangana.

*B. Swetha.*  
DR. B. SWETHA

Date: 23-01-2021  
Place: Nizamabad.

*B. Swetha.*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in



KALOJI NARAYANA RAO UNIVERSITY OF  
HEALTH SCIENCES, WARANGAL, TELANGANA

## CERTIFICATE

Name of the candidate: Dr. B. SWETHA

Registration number: 18204107003D

Period of registration for postgraduate course: 2018 - 2021

Branch: ORAL AND MAXILLOFACIAL SURGERY

Institution: Meghna Institute of Dental Sciences, Mallaram, Nizamabad,  
Telangana.

Title: A COMPARATIVE EVALUATION OF IMMEDIATE IMPLANT  
PLACEMENT IN FRESH EXTRACTION SOCKET WITH AND WITHOUT THE  
USE OF PLATELET RICH FIBRIN: CLINICAL AND RADIOGRAPHIC STUDY

This is to certify that this is an original work done by the candidate and  
no part of this work was used as basis for obtaining any other degree or  
publication or part thereof.

Date: 23-01-2021

Place: Nizamabad

B. Swetha .

Signature of the candidate

B. SWETHA

Signature of the Guide

Dr. NAVEEN K. M.D.S.,

Professor

Meghna Institute of Dental Sciences  
Nizamabad.

Seal & Signature of the HOD

Dr. K. AMARNATH M.D.S.,

Professor & Head

Meghna Institute of Dental Sciences  
Nizamabad.

Seal & Signature of the Principal

Dr. M. PRATAP KUMAR M.D.S.,

Meghna Institute of Dental Sciences

Nizamabad

**PRINCIPAL**

Meghna Institute of Dental Sciences

MALLARAM (V), NIZAMABAD

Pratapa.

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## EFFICACY OF RIDGE SPLIT TECHNIQUE WITH IMMEDIATE IMPLANT PLACEMENT IN HORIZONTALLY RESORBED RIDGES OF MAXILLA AND MANDIBLE – A PROSPECTIVE STUDY



By

**Dr. MINHAJ AFREEN**

Dissertation Submitted to

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH AND SCIENCES,**

**Warangal, Telangana.**

In partial fulfilment of the requirements for the

Degree of

**MASTER OF DENTAL SURGERY**

*In the specialty of*

**ORAL AND MAXILLOFACIAL SURGERY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003,**

**TELANGANA**

**2019 - 2022**

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the Dissertation entitled "EFFICACY OF HYDROXYAPATITE AND PLATELET RICH FIBRIN IN BONE REGENERATION AFTER SURGICAL REMOVAL OF MANDIBULAR THIRD MOLAR" is the original work done by Dr. MINHAJ AFREEN, in the Department of ORAL MAXILLOFACIAL SURGERY, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance, supervision and to our satisfaction.

**Dr. K. AMARNATH, M.D.S**  
Professor & HOD,  
Department of Oral & maxillofacial surgery,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr. M. PRATAP KUMAR, M.D.S.**  
Principal and Professor,  
Department of Conservative Dentistry  
& Endodontics.  
Meghna Institute Of Dental Sciences,  
Nizamabad, Telangana.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Declaration

I do hereby declare that this Dissertation entitled "**EFFICACY OF RIDGE SPLIT TECHNIQUE WITH IMMEDIATE IMPLANT PLACEMENT IN HORIZONTALLY RESORBED RIDGES OF MAXILLA AND MANDIBLE – A PROSPECTIVE STUDY**" is a bonafide and genuine research work carried out by me under the guidance of Dr. **KONDA AMARNATH, MDS**, Professor & HOD, Department of Oral & Maxillofacial Surgery, Meghna Institute of Dental Sciences, Nizamabad, Telangana.

**DR.MINHAJ AFREEN**

Date:

Place: Nizamabad.

*Portu R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in



KALOJI NARAYANA RAO UNIVERSITY OF  
HEALTH SCIENCES, WARANGAL, TELANGANA

## CERTIFICATE

Name of the candidate: Dr. MINHAJ AFREEN

Registration number: 19204107001D

Period of registration for postgraduate course: 2019 - 2022

Branch: ORAL AND MAXILLOFACIAL SURGERY

Institution: Meghna Institute of Dental Sciences, Mallaram, Nizamabad,  
Telangana.

Title: EFFICACY OF RIDGE SPLIT TECHNIQUE WITH IMMEDIATE  
IMPLANT PLACEMENT IN HORIZONTALLY RESORBED RIDGES OF  
MAXILLA AND MANDIBLE – A PROSPECTIVE STUDY

This is to certify that this is an original work done by the candidate and no part  
of this work was used as basis for obtaining any other degree or publication or  
part thereof.

Date:

Place: Nizamabad

Signature of the candidate

MINHAJ AFREEN

Seal & Signature of the HOD

**Dr. K. AMARNATH** M.D.S.,

Professor & HOD

Meghna Institute of Dental Sciences  
Nizamabad

Seal & Signature of the Principal

**Dr. M. PRATAP KUMAR** M.D.S.,

Professor & Head

Meghna Institute of Dental Sciences  
Nizamabad

*Pratapa*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

"MICRO-NEEDLING BY DERMA-PEN WITH OR WITH OUT PLATE -LET RICH PLASMA  
FOR ANY TYPE OF FACIAL SCAR REMOVAL-A COMPARATIVE STUDY".



By

**Dr. EMMADI.RAHUL KIRAN**

Dissertation Submitted to

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH AND SCIENCES,**

**Warangal, Telangana.**

In partial fulfilment of the requirements for the

Degree of

**MASTER OF DENTAL SURGERY**

*In the specialty of*

**ORAL AND MAXILLOFACIAL SURGERY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003,**

**TELANGANA**

**2019-2022**

*Pankaj R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

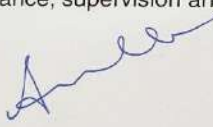
(Managed by : VELS EDUCATION SOCIETY)

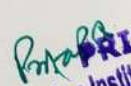
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in

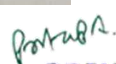
## Certificate



This is to certify that the Dissertation entitled " MICRO-NEEDLING BY DERMAPEN WITH OR WITH OUT PLATE-LET RICH PLASMA FOR ANY TYPE OF FACIAL SCAR REMOVAL-A COMPARATIVE STUDY " is the original work done by **Dr. EMMADI RAHUL KIRAN**, in the Department of ORAL MAXILLOFACIAL SURGERY, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance, supervision and to our satisfaction.

  
**PROFESSOR & HOD**  
DEPT. OF ORAL MAXILLOFACIAL SURGERY  
**Dr. KONDA AMARNATH, M.D.S**  
Professor & HOD, Nizamabad, (A.P)  
Department of Oral & maxillofacial surgery.  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
**MALLARAM (V), NIZAMABAD.**  
**Dr. M. PRAVEEN KUMAR, M.D.S**  
Principal and Professor,  
Department of Conservative Dentistry  
& Endodontics.  
Meghna Institute Of Dental Sciences,  
Nizamabad, Telangana.

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
**MALLARAM (V), NIZAMABAD.**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Declaration

I do hereby declare that this Dissertation entitled "MICRO-NEEDLING BY DERMA-PEN WITH OR WITH OUT PLATE-LET RICH PLASMA FOR ANY TYPE OF FACIAL SCAR REMOVAL-A COMPARATIVE STUDY" is a bonafide and genuine research work carried out by me under the guidance of Dr. KONDA AMARNATH, MDS, Professor & HOD, Department of Oral & Maxillofacial Surgery, Meghna Institute of Dental Sciences, Nizamabad, Telangana.

DR. EMMADIRAHUL KIRAN

Date: 8/1/2022  
Place: Nizamabad.

*Pontu R.*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in



KALOJI NARAYANA RAO UNIVERSITY OF  
HEALTH SCIENCES, WARANGAL, TELANGANA

## CERTIFICATE

Name of the candidate: Dr. EMMADI RAHULKIRAN

Registration number: 19204107003D

Period of registration for postgraduate course: 2019 - 2022

Branch: ORAL AND MAXILLOFACIAL SURGERY

Institution: Meghna Institute of Dental Sciences, Mallaram, Nizamabad, Telangana.

Title: "MICRO-NEEDLING BY DERMA-PEN WITH OR WITHOUT PLATELET RICH PLASMA FOR ANY TYPE OF FACIAL SCAR REMOVAL-A COMPARATIVE STUDY."

This is to certify that this is an original work done by the candidate and no part of this work was used as basis for obtaining any other degree or publication or part thereof.

Date: 8/01/2022

Place: Nizamabad

Signature of the candidate

EMMADI RAHULKIRAN

**PROFESSOR & HOD**

DEPT. OF ORAL MAXILLOFACIAL SURGERY  
Signature of the Guide  
Dr. M. KONDA AMARNATH M.D.S.,  
Professor & HOD  
Meghna Institute of Dental Sciences  
Nizamabad.

**PROFESSOR & HOD**  
DEPT. OF ORAL MAXILLOFACIAL SURGERY  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad (A.P.)

Seal & Signature of the HOD

Dr. KONDA AMARNATH M.D.S.,  
Professor & HOD  
Meghna Institute of Dental Sciences  
Nizamabad.

**PRINCIPAL**  
Seal & Signature of the Principal  
Dr. PRATAP KUMAR M.D.S.,  
Meghna Institute of Dental Sciences  
Nizamabad

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the Dissertation entitled "COMPARISON OF HERBERT CANNULATED SCREW FIXATION AND MINIPLATE FIXATION IN MANDIBULAR FRACTURES:A COMPARITIVE PROSPECTIVE STUDY" is the original work done by **Dr. KONDA SHRAVANI**, in the Department of ORAL MAXILLOFACIAL SURGERY, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance, supervision and to our satisfaction.

**PROFESSOR & HOD**  
DEPT. OF ORAL MAXILLOFACIAL SURGERY  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)  
**Dr. KONDA. AMARNATH, M.D.S**  
Professor &HOD,  
Department of Oral & maxillofacial surgery.  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana.

*Pratap*  
**Dr. M. PRATAP KUMAR, M.D.S**  
Principal and Professor,  
Department of Conservative Dentistry  
& Endodontics.  
Meghna Institute Of Dental Sciences,  
Nizamabad, Telangana.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD,

*Pratap*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## CERTIFICATE

This is to certify that the dissertation entitled "LASER AN INEVITABLE TOOL IN THE MANAGEMENT OF ORAL LEUKOPLAKIA - A CLINICOHISTOPATHOLOGICAL STUDY" is an original work done by DR.A.VINDHYAMADHURI bearing registration no. 16202107009D, pursuing post-graduation from 2016-2019 in the Department of Oral Medicine and Radiology, Meghana Institute of Dental Sciences, Nizamabad, has submitted as a requirement for the degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

Guide: Dr.MADHULATHA GOPALDAS.M.D.S,READER

**Dr.B.PRAVEEN KUMAR, M.D.S**  
Professor & Head of the Department,  
Department of Oral Medicine and  
Radiology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr. M.PRATAP KUMAR, M.D.S.**  
Principal & Head of the Department,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

Date: 29/7/19

Place: Nizamabad



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Declaration

I do hereby declare that this Dissertation entitled  
"COMPARISON OF HERBERT CANNULATED SCREW FIXATION AND MINIPLATE  
FIXATION IN MANDIBULAR FRACTURES:A COMPARITIVE PROSPECTIVE STUDY" is  
a bonafide and genuine research work carried out by me under the guidance of  
Dr. KONDA AMARNATH, MDS, Professor & HOD, Department of Oral &  
Maxillofacial Surgery, Meghna Institute of Dental Sciences, Nizamabad,  
Telangana.

**DR. KONDA SHRAVANI**

Date:

Place: Nizamabad.

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"COMPARITIVE EFFICACY OF SPIRULINA AND CURCUMIN IN THE  
MANAGEMENT OF ORAL SUBMUCOUS FIBROSIS - A SINGLE CENTRIC  
DOUBLE BLIND RANDOMIZED CONTROLLED TRIAL"**

By

Dr POOSA MANASA



Dissertation Submitted to the

Dr. N.T.R. University of Health Sciences,

Vijayawada, Andhra Pradesh

In Partial Fulfillment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**

**DEPARTMENT OF ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES, NIZAMABAD-503003**

**TELANGANA STATE, INDIA.**

2014-2017

*Poosha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,

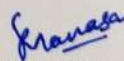
## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation entitled "**COMPARITIVE EFFICACY OF SPIRULINA AND CURCUMIN IN THE MANAGEMENT OF ORAL SUBMUCOUS FIBROSIS - A SINGLE CENTRIC DOUBLE BLIND RANDOMIZED CONTROLLED TRIAL**" is a bonafide and genuine research work carried out by me under the guidance of **Dr T. HARSHAVARDHAN, M.D.S,** Professor, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 29-11-2016

Place: NIZAMABAD

  
Signature of the candidate

Dr POOSA MANASA

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “COMPARITIVE EFFICACY OF SPIRULINA AND CURCUMIN IN THE MANAGEMENT OF ORAL SUBMUCOUS FIBROSIS – A SINGLE CENTRIC DOUBLE BLIND RANDOMIZED CONTROLLED TRIAL ” is a bonafide research work done by Dr POOSA MANASA in partial fulfillment of the requirement for the degree of Master of Dental Surgery in Department of Oral Medicine and Radiology.

Date: 29/11/16  
Place: NIZAMABAD

  
Signature of the Guide

Dr. T. HARSHAVARDHAN M.D.S

Professor

Department Of Oral Medicine

Diagnosis and Radiology





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the dissertation entitled "COMPARITIVE EFFICACY OF SPIRULINA AND CURCUMIN IN THE MANAGEMENT OF ORAL SUBMUCOUS FIBROSIS – A SINGLE CENTRIC DOUBLE BLIND RANDOMIZED CONTROLLED TRIAL" is an original work done by **Dr POOSA MANASA** bearing registration No: D149604014, pursuing post graduation from 2014-2017 in the **Department of Oral Medicine and Radiology**, Meghna Institute of Dental Sciences, Nizamabad, has submitted as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

**DR.A.SHAILENDER REDDY, M.D.S**

Professor and HOD,  
Department of oral medicine and radiology  
Meghna institute of dental sciences .

**DR.M.PRATAP KUMAR, M.D.S**

Principal,  
Meghna institute of dental sciences.

**Dr. K. NANDA KUMAR, M.D.S**

Dean and director of post graduate studies,  
Meghna institute of dental sciences.

Date:

Place:

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"PREVALENCE OF CANDIDAL COLONIZATION AND ITS ASSOCIATION  
IN POTENTIALLY MALIGNANT DISORDERS  
A CLINICOPATHOLOGICAL STUDY"**

By

**Dr. B.HARITHA**



Dissertation Submitted to the

**Dr. N.T.R. University of Health Sciences,**

**Vijayawada, Andhra Pradesh**

In Partial Fulfillment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the specialty of

**ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**

**DEPARTMENT OF ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES, NIZAMABAD-503001**

**TELANGANA STATE, INDIA.**

**2015-2018**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation entitled "**PREVALENCE OF CANDIDAL COLONIZATION AND ITS ASSOCIATION IN POTENTIALLY MALIGNANT DISORDERS - A CLINICOPATHOLOGICAL STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr T. HARSHAVARDHAN, M.D.S** Professor & HOD, and **Dr.B.JAYA KRISHNA,M.D.S** Reader, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 11/12/2017  
Place: NIZAMBAD

*Dr. B. Haritha*  
Signature of the candidate

Dr. B.HARITHA

*Dr. B. Haritha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMBAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled **“PREVALENCE OF CANDIDAL COLONIZATION AND ITS ASSOCIATION IN POTENTIALLY MALIGNANT DISORDERS - A CLINICOPATHOLOGICAL STUDY”** is a bonafide research work done by **Dr. B.HARITHA** in partial fulfillment of the requirement for the degree of **Master of Dental Surgery** in Department of Oral Medicine and Radiology.

Date: 11-12-2017

Place: NIZAMABAD

Signature of the Guide

**Dr. B.JAYA KRISHNA** M.D.S

Reader

Department Of Oral Medicine

Diagnosis and Radiology

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the dissertation entitled "**PREVALENCE OF CANDIDAL COLONIZATION AND ITS ASSOCIATION IN POTENTIALLY MALIGNANT DISORDERS - A CLINICOPATHOLOGICAL STUDY**" is an original work done by **Dr. B.HARITHA** bearing registration No: D159604045, pursuing post graduation from 2015-2018 in the **Department of Oral Medicine and Radiology**, Meghna Institute of Dental Sciences, Nizamabad, has submitted as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

Guide: **Dr Jaya Krishna** MDS, Reader . *B. Jangl*

*T. Harsha Vardhan*  
**Dr. T.HARSHA VARDHAN, M.D.S**

Professor & HOD,  
Department of Oral Medicine and  
Radiology, Nizamabad.

*Pratap A.*  
**Dr. M.PRATAP KUMAR, M.D.S**

Principal,  
Meghna Institute of Dental Sciences,  
Nizamabad,

*K. Nanda Kumar*  
**Dr. K. NANDA KUMAR, M.D.S**

Date: *11-12-2017* Dean and director of post graduate studies,

Place: *NIZAMABAD* Meghna Institute of Dental Sciences.

*Pratap A.*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"Image Analysis Of The Eruptive Positions Of Third Molars And  
Adjacent Second Molars As Indicator Of Age Evaluation in Telangana  
Population- A Prospective study"**

By

Dr. MAHESH.M



Dissertation Submitted to the

Dr. N.T.R. University of Health Sciences,

Vijayawada, Andhra Pradesh

In Partial Fulfillment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**

**DEPARTMENT OF ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES, NIZAMABAD-503003**

**TELANGANA STATE, INDIA.**

**2015-2018**

I

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,

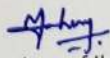
## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation entitled "Image Analysis Of The Eruptive Positions Of Third Molars And Adjacent Second Molars As Indicator Of Age Evaluation in Telangana Population- A Prospective study" is a bonafide and genuine research work carried out by me under the guidance of **Dr T. HARSHAVARDHAN, M.D.S** Professor, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 11-12-2017

Place: NIZAMABAD

  
Signature of the candidate

Dr. MAHESH.M



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**Image Analysis Of The Eruptive Positions Of Third Molars And Adjacent Second Molars As Indicator Of Age Evaluation in Telangana Population- A Prospective study**” is a bonafide research work done by **Dr. MAHESH. M** in partial fulfillment of the requirement for the degree of **Master of Dental Surgery** in Department of Oral Medicine and Radiology.

Date: 11-12-2017

Place: NIZAMABAD

  
Signature of the Guide

**Dr. T. HARSHAVARDHAN** M.D.S

Professor & HOD

Department Of Oral Medicine

Diagnosis and Radiology

III

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the dissertation entitled "**Image Analysis Of The Eruptive Positions Of Third Molars And Adjacent Second Molars As Indicator Of Age Evaluation in Telangana Population- A Prospective study**" is an original work done by **Dr. MAHESH. M** bearing registration No: , pursuing post graduation from 2015-2018 in the **Department of Oral Medicine and Radiology**, Meghna Institute of Dental Sciences, Nizamabad, has submitted as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

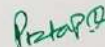


**Dr. T. HARSHAVARDHAN, M.D.S**

Professor & HOD,

Department of Oral Medicine and Radiology,

Meghna Institute of Dental Sciences,



**Dr. M. PRATHAP KUMAR, M.D.S**

Principal,

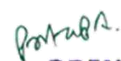
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana state.



**Dr. K. NANDA KUMAR, M.D.S**

Dean and director of post graduate studies,  
Meghna Institute of Dental Sciences.

Date: 11-12-2017  
Place: NIZAMABAD



**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "LASER AN INEVITABLE TOOL IN THE MANAGEMENT OF ORAL LEUKOPLAKIA – A CLINICOHISTOPATHOLOGICAL STUDY"



By

Dr. A.VINDHYA MADHURI  
Registration no. 16202107009D

Dissertation Submitted to  
KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA

In Partial Fulfilment of the requirements for the degree of

MASTER OF DENTAL SURGERY

In the speciality of

ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY

DEPARTMENT OF ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY

MEGHNA INSTITUTE OF DENTAL SCIENCES NIZAMABAD, 503001

TELANGANASTATE,INDIA

2016-2019

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation entitled " **LASER AN INEVITABLE TOOL IN THE MANAGEMENT OF ORAL LEUKOPLAKIA – A CLINICO-HISTOPATHOLOGICAL STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr.B.PRAVEEN KUMAR, M.D.S.** Professor and Head of the Department, and **Dr.MADHULATHA GOPALDAS, M.D.S** Reader, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 29/7/19

Place: Nizamabad

*Vindhya*  
Signature of the candidate

Dr. A.VINDHYA MADHURI



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500003, TELANGANA STATE

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "**LASER AN INEVITABLE TOOL IN THE MANAGEMENT OF ORAL LEUKOPLAKIA – A CLINICO HISTOPATHOLOGICAL STUDY**" is a bonafide research work done by **Dr.A.VINDHYA MADHURI** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Oral Medicine and Radiology.

Date: 29/7/19

Place: Nizamabad

Signature of the Guide

**Dr. MADHULATHA GOPALDAS M.D.S**

Reader

Department Of Oral Medicine

Diagnosis and Radiology

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"TO EVALUATE THE EFFICIENCY OF TRANSCUTANEOUS  
ELECTRICAL NERVE STIMULATION (TENS) ON STIMULATED  
AND UNSTIMULATED SALIVARY FLOW RATES IN DIABETIC  
PATIENTS"**



By

**Dr. Alekhya**

Registration no. 17202107007D

Dissertation Submitted to

**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**

**DEPARTMENT OF ORAL MEDICINE, DIAGNOSIS AND  
RADIOLOGY**

Meghna Institute of Dental Sciences

Nizamabad, Telangana-503 003

2017-2020



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "To evaluate the efficiency of Transcutaneous Electrical Nerve Stimulation (TENS) on stimulated and unstimulated salivary flow rates in Diabetic patients" is a bonafide and genuine research work carried out by me under the guidance of **Dr.B.PRAVEEN KUMAR M.D.S.** Professor and Head of the Departement, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Date:

Signature of the candidate

Place:

(Dr. Alekhya)



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "TO EVALUATE THE EFFICIENCY OF TRANSCUTANEOUS ELECTRICAL NERVE STIMULATION (TENS) ON STIMULATED AND UNSTIMULATED SALIVARY FLOW RATES IN DIABETIC PATIENTS" done by Dr.Alekhyia in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Oral Medicine and Radiology.

Date:  
Place:

Signature of the Guide  
**Dr. B.Praveen Kumar M.D.S**  
Professor and Head of the Department  
Department of Oral Medicine and Radiology

III

*Praveen*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. Alekhya** bearing **REGISTRATION NO. 17202107007D**, pursuing post-graduation from 2017-2020 in the **Department Of Oral Medicine and Radiology**, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled **"To evaluate the efficiency of Transcutaneous Electrical Nerve Stimulation (TENS) on stimulated and unstimulated salivary flow rates in Diabetic patients"** as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

**Dr B.PRAVEEN KUMAR, MDS**  
Professor & Head Of the Department,  
Department of Oral Medicine and Radiology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr M.PRATAP KUMAR, MDS.**  
Principal & Head Of the Department,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

EVALUATION OF SEALING ABILITY OF NEOMTA PLUS,MTA ANGELUS  
AND BIODENTINE AS FURCATION REPAIR MATERIALS -AN UV  
SPECTROPHOTOMETRIC ANALYSIS-AN IN VITRO STUDY"



By

Dr. PRAJWALITH REUBEN BURKA

*Dissertation Submitted to the*

Dr. K.N.R. University of Health Sciences,  
WARANGAL, TELANGANA.

*In Partial Fulfilment of the requirements for the degree of*  
MASTER OF DENTAL SURGERY

*In the speciality of*

CONSERVATIVE DENTISTRY AND ENDODONTICS

MEGHNA INSTITUTE OF DENTAL SCIENCES

NIZAMABAD- 503003

TELANGANA STATE

2017-2020



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

Dr. KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled " **EVALUATION OF SEALING ABILITY OF NEOMTA PLUS, MTA ANGELUS AND BIODENTINE AS FURCATION REPAIR MATERIALS -AN UV SPECTROPHOTOMETRIC ANALYSIS-AN IN VITRO STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr. L. KARTHIK, M.D.S**, READER, Department of Conservative Dentistry and Endodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 26/12/2019

Signature of the candidate

Place: Nizamabad

Dr. PRAJWALITH REUBEN

BURKA





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled " **EVALUATION OF SEALING ABILITY OF NEOMTA PLUS, MTA ANGELUS AND BIODENTINE AS FURCATION REPAIR MATERIALS -AN UV SPECTROPHOTOMETRIC ANALYSIS-AN IN VITRO STUDY.**" is a bonafide research work done by **Dr. PRAJWALITH REUBEN BURKA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Conservative Dentistry and Endodontics.

Date: 26/12/2019

Place: Nizamabad

Signature of the Guide

Dr. L. KARTHIK

READER

Department Of Conservative Dentistry  
And Endodontics.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. PRAJWALITH REUBEN BURKA** bearing registration No: **17206107015D** pursuing post graduation from 2017 to 2020 in the **Department of Conservative Dentistry and Endodontics**, Meghna Institute of Dental Sciences, Nizamabad, submitted the dissertation "**EVALUATION OF SEALING ABILITY OF NEOMTA PLUS, MTA ANGELUS AND BIODENTINE AS FURCATION REPAIR MATERIALS -AN UV SPECTROPHOTOMETRIC ANALYSIS-AN IN VITRO STUDY**" which is the original work done by her, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

*Pratap. R*

**Dr. M. PRATAP KUMAR, M.D.S.**

.PRINCIPAL, PROFESSOR & HOD  
Department of Conservative Dentistry  
& Endodontics,  
Meghna Institute of Dental sciences  
Nizamabad, Telangana.

*Pratap. R*

**Dr. M. PRATAP KUMAR, M.D.S.**

Principal,

Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

Date: *26/12/2019*

Place: *Nizamabad*

Date: *26/12/2019*

Place: *Nizamabad*

*R.*

PRINCIPAL  
Meghna Institute of Dental Sciences  
(V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## "COMPARITIVE EFFICACY OF INTRA LESIONAL BETAMETHASONE AND OZONISED OLIVE OIL IN MANAGEMENT OF EROSIIVE LICHEN PLANUS"



By

**DR. BUSHRA AIMON**  
Registration no:18202107002D

Dissertation Submitted to  
**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of  
**MASTER OF DENTAL SURGERY**  
In the speciality of

**ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**  
**DEPARTMENT OF ORAL MEDICINE, DIAGNOSIS AND  
RADIOLOGY**

Meghna Institute of Dental Sciences  
Nizamabad, Telangana-503 003  
2018-2021

I

*Bushra*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in


KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**COMPARITIVE EFFICACY OF INTRA LESIONAL BETAMETHASONE AND OZONISED OLIVE OIL IN MANAGEMENT OF EROSIVE LICHEN PLANUS**" is a bonafide and genuine research work carried out by me under the guidance of **Dr.B.PRAVEEN KUMAR M.D.S.** Professor and Head of the Department, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 21-1-21

Place: NIZAMABAD

  
Signature of the candidate

(Dr. Bushra Aimon)



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503 003, TELANGANA.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**COMPARITIVE  
EFFICACY OF INTRA LESIONAL BETAMETHASONE AND OZONISED  
OLIVE OIL IN MANAGEMENT OF EROSION LICHEN PLANUS**” done by  
Dr.Bushra Aimon in partial fulfilment of the requirement for the degree of  
Master of Dental Surgery in Department of Oral Medicine and Radiology.

Date: 21-01-2021  
Place: NIZAMABAD

Signature of the Guide

Dr.B.Praveen Kumar M.D.S

Professor and Head of the Department  
Department of Oral Medicine and Radiology

**PROFESSOR & HOD**  
DEPT. OF ORAL MEDICINE & RADIOLOGY  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. Bushra Aimon** bearing REGISTRATION NO. **18202107002D** pursuing post-graduation from 2018-2021 in the **Department Of Oral Medicine and Radiology**, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled "**COMPARITIVE EFFICACY OF INTRA LESIONAL BETAMETHASONE AND OZONISED OLIVE OIL IN MANAGEMENT OF EROSION LICHEN PLANUS**" as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

**Dr.B.Praveen kumar, MDS**  
Professor & Head of the Department,  
Department of Oral Medicine and  
Radiology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**PROFESSOR & HOD**  
DEPT. OF ORAL MEDICINE & RADIOLOGY  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)

**Dr .M.PRATAP KUMAR, MDS.**  
Principal & Professor,  
Head of the Department,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

COMPARATIVE EFFICACY OF DEXAMETHASONE MUCOSAL  
PATCHES, DEXAMETHASONE INTRA LESIONAL INJECTIONS AND  
LOCAL APPLICATION OF CURCUMIN IN THE MANAGEMENT OF ORAL  
SUBMUCOUS FIBROSIS



By

Dr. SARITHA . V

Registration no. 16202107007D

Dissertation Submitted to  
KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA

In Partial Fulfilment of the requirements for the degree of

MASTER OF DENTAL SURGERY

In the speciality of

ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY

DEPARTEMENT OF ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY

Meghna Institute of Dental Sciences

Nizamabad, Telangana-503 003

2016-2019

I

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "comparative efficacy of dexamethasone mucosal patches, dexamethasone intralesional injections and local application of curcumin in the management of oral submucous fibrosis : comparative study" is a bonafide and genuine research work carried out by me under the guidance of Dr.T.HARSHAVARDHAN M.D.S. Professor and Head of the Department, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 26-11-2018

Signature of the candidate

Place: Nizamabad.

(Dr. Saritha.V)



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500003, TELANGANA STATE

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "COMPARATIVE EFFICACY OF DEXAMETHASONE MUCOSAL PATCHES, DEXAMETHASONE INTRA LESIONAL INJECTIONS AND LOCAL APPLICATION OF CURCUMIN IN THE MANAGEMENT OF ORAL SUBMUCOUS FIBROSIS: COMPARATIVE STUDY" done by Dr.SARITHA.V in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Oral Medicine and Radiology.

Date: 26-11-2018

Place: Nizamabad.

Signature of the Guide

Dr. T.HARSHA VARDHAN M.D.S

Professor & HOD

Department Of Oral Medicine

Diagnosis and Radiology

III

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. SARITHA.V** bearing registration no. 16202107007D, pursuing post-graduation from 2016-2019 in the Department Of Oral Medicine and Radiology, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled "comparative efficacy of dexamethasone mucosal patches, dexamethasone intralesional injections and local application of curcumin in the management of OSMF: prospective randomised comparative Study" as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

**Dr. T. HARSHA VARDHAN, MDS**  
Professor & Head of the Department,  
Department of Oral Medicine and  
Radiology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr. M. PRATAP KUMAR, MDS.**  
Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

**Dr. K. NANDA KUMAR., M.D.S**  
Dean & Director of post graduate studies,  
Professor & HOD,  
Department of Conservative dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad,  
Telangana



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"ESTIMATION OF SERUM CREATININE  
PHOSPHOKINASE IN POTENTIALLY MALIGNANT  
DISEASES OF THE ORAL CAVITY: A BIOCHEMICO-  
HISTOPATHOLOGICAL STUDY"**



By

**Dr.Tejaswi. B**

Registration no. 16202107008D

Dissertation Submitted to

**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**

**DEPARTEMENT OF ORAL MEDICINE, DIAGNOSIS AND  
RADIOLOGY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES**

**NIZAMABAD, TELANGANA-503 003**

**2016-2019**

I

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "Estimation of serum Creatinine phosphokinase in Potentially Malignant Diseases of the Oral Cavity: A Biochemico-Histopathological Study" is a bonafide and genuine research work carried out by me under the guidance of Dr.T.HARSHA VARDHAN M.D.S. Professor and Head of the Department, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 26/11/18

Place: Nizamabad

*Tejaswi B*  
Signature of the candidate

(Dr.Tejaswi. B)





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## MEGHNA INSTITUTE OF DENTAL SCIENCES, NIZAMABAD – 500 003, TELANGANA.

### CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**Estimation of Serum Creatinine Phosphokinase in Potentially Malignant Disease of the Oral Cavity: A Biochemico- Histopathological Study**” done by **Dr. TEJASWI.B** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Oral Medicine and Radiology.

Date: 26/11/18  
Place: Nizamabad

  
Signature of the Guide

**Dr. T.HARSHA VARDHAN M.D.S**

Professor and Head of the Department  
Department of oral Medicine and Radiology

III

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. TEJASWI.B bearing REGISTRATION NO. 16202107008D, pursuing post-graduation from 2016-2019 in the Department Of Oral Medicine and Radiology, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled "Estimation OF Serum Creatinine Phosphokinase in Potentially Malignant Diseases of the Oral Cavity: A Biochemico- Histopathological Study" as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

**Dr.T.HARSHA VARDHAN, MDS**

Professor & Head of the Department,  
Department of Oral Medicine and Radiology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr M.PRATAP KUMAR, MDS.**

Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

**Dr. K. NANDA KUMAR., M.D.S**

Dean & Director of post graduate studies,  
Professor & HOD,  
Department of Conservative dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "EVALUATION AND COMPARISON OF SERUM VITAMIN D LEVELS IN PATIENTS HAVING ORAL LICHEN PLANUS AND RECURRENT APHTHOUS STOMATITIS WITH THAT OF HEALTHY INDIVIDUALS"



By

**Dr. N. Surya Vamshi**

Registration no. 19202107001D

Dissertation Submitted to  
KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA

In Partial Fulfilment of the requirements for the degree of  
**MASTER OF DENTAL SURGERY**

In the speciality of

**ORAL MEDICINE, DIAGNOSIS AND RADIOLOGY**  
DEPARTEMENT OF ORAL MEDICINE, DIAGNOSIS AND  
RADIOLOGY

Meghna Institute of Dental Sciences  
Nizamabad, Telangana-503 003

2019-2022

I

*Potkura*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "EVALUATION AND COMPARISON OF SERUM VITAMIN D LEVELS IN PATIENTS HAVING ORAL LICHEN PLANUS AND RECURRENT APHTHOUS STOMATITIS WITH THAT OF HEALTHY INDIVIDUALS" is a bonafide and genuine research work carried out by me under the guidance of Dr.B. Praveen Kumar M.D.S. Professor & Hod, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Signature of the candidate

Date: 23.12.2021

Place: NIZAMABAD

(Dr. N. Surya Vamshi)

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "EVALUATION AND COMPARISON OF SERUM VITAMIN D LEVELS IN PATIENTS HAVING ORAL LICHEN PLANUS AND RECURRENT APHTHOUS STOMATITIS WITH THAT OF HEALTHY INDIVIDUALS" is a bonafide and genuine research work carried out by me under the guidance of Dr.B. Praveen Kumar M.D.S. Professor & Hod, Department of Oral Medicine and Radiology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 23.12.2021

Place: NIZAMABAD

Signature of the candidate

(Dr. N. Surya Vamshi)

*Praveen*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500003, TELANGANA.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "EVALUATION AND COMPARISON OF SERUM VITAMIN D LEVELS IN PATIENTS HAVING ORAL LICHEN PLANUS AND RECURRENT APHTHOUS STOMATITIS WITH THAT OF HEALTHY INDIVIDUALS" done by Dr.N. Surya Vamshi in partial fulfilment of the requirement for the degree of Master of Dental Surgery in Department of Oral Medicine and Radiology.

Date: 23.12.2021

Place: NIZAMABAD

Signature of the Guide

**PROFESSOR & HOD**  
DEPT. OF ORAL MEDICINE & RADIOLOGY  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)

Dr.B.PRAVEEN KUMAR, M.D.S  
Professor & Head of the Department,  
Department of Oral Medicine and Radiology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana

III

*Praveen*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. N.Surya Vamshi** bearing **Registration no. 19202107001D**, pursuing post-graduation from 2019-2022 in the **Department Of Oral Medicine and Radiology**, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled **"EVALUATION AND COMPARISON OF SERUM VITAMIN D LEVELS IN PATIENTS HAVING ORAL LICHEN PLANUS AND RECURRENT APHTHOUS STOMATITIS WITH THAT OF HEALTHY INDIVIDUALS"** as a requirement for the degree of Master of Dental Surgery. This dissertation is an original work done under our personal guidance and supervision.

**Guided by:-**

**Dr.B.PRAVEEN KUMAR, M.D.S**  
Professor & Head of the Department,  
Department of Oral Medicine and  
Radiology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**PROFESSOR & HOD**  
DEPT. OF ORAL MEDICINE & RADIOLOGY  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)

**Dr. M.PRATAP KUMAR, M.D.S.**  
Principal & Head of the Department,  
Department of Conservative Dentistry &  
Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"EFFECT OF BRACKET SIZE ON MICROBIAL COLONIZATION  
& PERIODONTAL STATUS DURING EARLY PHASE OF  
ORTHODONTIC TREATMENT – AN IN VIVO STUDY"**



1986

By

**Dr. S.SHARANYA**

Dissertation Submitted to

**Dr. NTR University of Health Sciences,**

**Vijayawada, Andhra Pradesh.**

In partial fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

**UNDER THE GUIDANCE OF**

**Dr. E. SEENA NAIK**

**PROFESSOR & HOD**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003,**

**TELANGANA.**

**2014-2017**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA

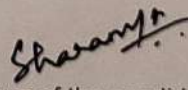
## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation/thesis entitled "EFFECT OF BRACKET SIZE ON MICROBIAL COLONIZATION & PERIODONTAL STATUS DURING EARLY PHASE OF ORTHODONTIC TREATMENT – AN IN VIVO STUDY" is a bonafide and genuine research work carried out by me under the guidance of Dr. E. SEENA NAIK. M.D.S, PROFESSOR& HOD, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 14/12/16

Place: Nizamabad.

  
Signature of the candidate

Dr. S. SHARANYA





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## MEGHNA INSTITUTE OF DENTAL SCIENCES NIZAMABAD – 503003. TELANGANA

### CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled “EFFECT OF BRACKET SIZE ON MICROBIAL COLONIZATION & PERIODONTAL STATUS DURING EARLY PHASE OF ORTHODONTIC TREATMENT – AN IN VIVO STUDY” is a bonafide research work done by **Dr. S. SHARANYA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Orthodontics and Dentofacial Orthopaedics.

Date: 14/12/16  
Place: Nizamabad

Signature of the Guide

**Dr. E. SEENA NAIK**  
**Professor & HOD**

Department of Orthodontics  
and Dentofacial Orthopaedics

III

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the dissertation entitled “EFFECT OF BRACKET SIZE ON MICROBIAL COLONIZATION & PERIODONTAL STATUS DURING EARLY PHASE OF ORTHODONTIC TREATMENT – AN IN VIVO STUDY” is the original work done by **Dr. S.SHARANYA** bearing registration No: **D149608017**, pursuing post graduation from 2014-2017 in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

**Dr. E. SEENA NAIK, M.D.S.,**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr. M. PRATAP KUMAR, M.D.S.,**  
Principal & Professor  
Meghna Institute of Dental Sciences,  
Nizamabad.  
Telangana.

**Dr. K. NANDA KUMAR**  
Dean & Professor,  
Director of post graduate studies,  
Department of Conservative Dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana

IV

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**“TO ASSESS THE MICROBIAL CONTAMINATION OF  
ORTHODONTIC BUCCAL TUBES, ARCH WIRES AND BRACKETS  
FROM VARIOUS MANUFACTURERS-AN INVITRO STUDY”**



By

**Dr. NUNUSAVATH RAMESH**

*Dissertation Submitted to the  
Dr. N.T.R. University of Health Sciences,  
Vijayawada, Andhra Pradesh*

*In Partial Fulfilment of the requirements for the degree of*

**MASTER OF DENTAL SURGERY**

*In the speciality of*

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

Under the guidance of  
**Dr. E. SEENA NAIK**  
**PROFESSOR AND HOD**

**MEGHNA INSTITUTE OF DENTAL SCIENCES**  
**NIZAMABAD-503 003**  
**TELANGANA**  
**2014-2017**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

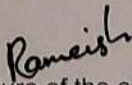
**Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH**

**DECLARATION BY THE CANDIDATE**



I hereby declare that this dissertation entitled "**TO ASSESS THE MICROBIAL CONTAMINATION OF ORTHODONTIC BUCCAL TUBES, ARCH WIRES AND BRACKETS FROM VARIOUS MANUFACTURERS-AN INVITRO STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr.E.SEENA NAIK**, Professor and HOD, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental sciences, Nizamabad.

Date: 14/12/16  
Place: NZB

  
Signature of the candidate  
**Dr. NUNUSAVATH RAMESH**  
Meghna Institute of Dental  
Sciences, Nizamabad,  
Telangana - 503003.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled "TO ASSESS THE MICROBIAL CONTAMINATION OF ORTHODONTIC BUCCAL TUBES, ARCH WIRES AND BRACKETS FROM VARIOUS MANUFACTURERS - AN INVITRO STUDY" is a bonafide research work done by **Dr. NUNUSAVATH RAMESH** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Orthodontics and Dentofacial Orthopaedics.

Date: 14/12/16  
Place: Nizamabad

Signature of the Guide

**Dr. E. SEENA NAIK**  
**Professor & HOD**

Department Of Orthodontics and  
Dentofacial Orthopaedics

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that **Dr. NUNUSAVATH RAMESH**, bearing registration No: D149608018 pursuing post-graduation from 2014-2017 in **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery has submitted the dissertation entitled "**TO ASSESS THE MICROBIAL CONTAMINATION OF ORTHODONTIC BUCCAL TUBES, ARCH WIRES AND BRACKETS FROM VARIOUS MANUFACTURERS-AN INVITRO STUDY**" is an original work done under our personal guidance and supervision.

**Dr. E. SEENA NAIK**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr. M. PRATAP KUMAR**  
Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr. K. NANDAKUMAR**  
Dean & Professor,  
Director of post graduate studies,  
Department of Conservative Dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"TO EVALUATE & COMPARE THE ACCURACY & RELIABILITY OF  
COMMON HARD TISSUE & SOFT TISSUE CEPHALOMETRIC LINEAR &  
ANGULAR MEASUREMENTS B/W NEMOCEPH & DOLPHIN IMAGING  
SOFTWARE & THEIR RELATIVE COMPARISION WITH MANUAL  
CEPHALOMETRIC TRACING"**



By

**Dr. R. RAVI**

Dissertation Submitted to the  
**Dr. N.T.R. University of Health Sciences,**  
**Vijayawada, Andhra Pradesh**

In Partial Fulfilment  
of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

*In the speciality of*

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

**MEGHNA INSTITUTE OF DENTAL SCIENCES**

**NIZAMABAD-503003, TELANGANA**

**2014-2017**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

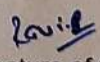
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH**

**DECLARATION BY THE CANDIDATE**

I hereby declare that this dissertation entitled "**TO EVALUATE & COMPARE THE ACCURACY & RELIABILITY OF COMMON HARD TISSUE & SOFT TISSUE CEPHALOMETRIC LINEAR & ANGULAR MEASUREMENTS B/W NEMOCEPH & DOLPHIN IMAGING SOFTWARE & THEIR RELATIVE COMPARISON WITH MANUAL CEPHALOMETRIC TRACING**" is a bonafide and genuine research work carried out by me under the guidance of **Dr. M. Thirumal Naik**, Professor, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental sciences, Nizamabad.

Date: 20/12/16  
Place: Nizamabad.

  
Signature of the candidate  
**Dr. R. RAVI**

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## MEGHNA INSTITUTE OF DENTAL SCIENCES NIZAMABAD – 503003. TELANGANA

### CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**TO EVALUATE & COMPARE THE ACCURACY & RELIABILITY OF COMMON HARD TISSUE & SOFT TISSUE CEPHALOMETRIC LINEAR & ANGULAR MEASUREMENTS B/W NEMOCEPH & DOLPHIN IMAGING SOFTWARE & THEIR RELATIVE COMPARISON WITH MANUAL CEPHALOMETRIC TRACING**” is a bonafide research work done by **Dr. R. RAVI** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Orthodontics and Dentofacial Orthopaedics.

Date:

Place:

Signature of the Guide

**DR. M. THIRUMAL NAIK**

**Professor**

Department Of Orthodontics  
and Dentofacial Orthopaedics

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the dissertation entitled "TO EVALUATE & COMPARE THE ACCURACY & RELIABILITY OF COMMON HARD TISSUE & SOFT TISSUE CEPHALOMETRIC LINEAR & ANGULAR MEASUREMENTS B/W NEMOCEPH & DOLPHIN IMAGING SOFTWARE & THEIR RELATIVE COMPARISON WITH MANUAL CEPHALOMETRIC TRACING" is the original work done by Dr. R.RAVI bearing registration No: **D149608019**, pursuing post graduation from 2014-2017 in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

**Dr. E. SEENA NAIK, M.D.S.,**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr. M. THIRUMAL NAIK, M.D.S.,**  
Professor,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad.

**Dr. M. PRATAP KUMAR, M.D.S.,**  
Principal & Professor  
Meghna Institute of Dental Sciences,  
Nizamabad,  
Telangana.

**Dr. K. NANDA KUMAR, M.D.S.,**  
Dean & Professor,  
Director of post graduate studies,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"A STUDY TO EVALUATE THE EFFECTS OF DIFFERENT  
MOUTH WASHES, ACIDIC SOFT DRINKS AND HERBAL TEAS  
ON THE SHEAR BOND STRENGTH OF ORTHODONTIC  
STAINLESS STEEL BRACKETS –AN INVITRO STUDY."**



By

**Dr. SANDEEP ADIKA**

Dissertation Submitted to

**Dr. NTR University of Health Sciences,**

**Vijayawada, Andhra Pradesh.**

In partial fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

**UNDER THE GUIDANCE OF**

**Dr. E. SEENA NAIK**

**PROFESSOR & HOD**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003, TELANGANA.**

**2015-2018**

I

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation/thesis entitled "A STUDY TO EVALUATE THE EFFECTS OF DIFFERENT MOUTH WASHES, ACIDIC SOFT DRINKS AND HERBAL TEAS ON THE SHEAR BOND STRENGTH OF ORTHODONTIC STAINLESS STEEL BRACKETS – AN INVITRO STUDY" is a bonafide and genuine research work carried out by me under the guidance of **Dr. E. SEENA NAIK. M.D.S**, PROFESSOR & HOD, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 11.12.2017

Signature of the candidate

Place: NIZAMABAD

Dr. SANDEEP ADIKA





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## MEGHNA INSTITUTE OF DENTAL SCIENCES NIZAMABAD – 503003. TELANGANA

### CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled "A STUDY TO EVALUATE THE EFFECTS OF DIFFERENT MOUTH WASHES, ACIDIC SOFT DRINKS AND HERBAL TEAS ON THE SHEAR BOND STRENGTH OF ORTHODONTIC STAINLESS STEEL BRACKETS – AN INVITRO STUDY" is a bonafide research work done by **Dr. SANDEEP ADIKA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Orthodontics and Dentofacial Orthopaedics.

Date: 11.12.2017  
Place: NIZAMABAD

Signature of the Guide

**Dr. E. SEENA NAIK**  
**Professor & HOD**

Department of Orthodontics  
and Dentofacial Orthopaedics

*Seena N.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

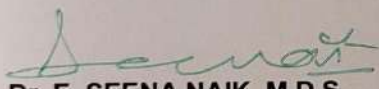
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

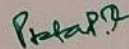


This is to certify that the dissertation entitled "A STUDY TO EVALUATE THE EFFECTS OF DIFFERENT MOUTH WASHES, ACIDIC SOFT DRINKS AND HERBAL TEAS ON THE SHEAR BOND STRENGTH OF ORTHODONTIC STAINLESS STEEL BRACKETS –AN INVITRO STUDY" is the original work done by **Dr. SANDEEP ADIKA** bearing registration No: **D159608067**, pursuing post graduation from 2015-2018 in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery.

This work was done under our personal guidance and supervision.



**Dr. E. SEENA NAIK, M.D.S.,**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

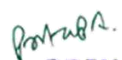


**Dr. M. PRATAP KUMAR, M.D.S.,**  
Principal & Professor  
Meghna Institute of Dental Sciences,  
Nizamabad,  
Telangana.



**Dr. K. NANDA KUMAR, M.D.S.,**  
Dean & HOD,  
Director of post graduate studies,  
Department of Conservative Dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana

IV



**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"A STUDY TO EVALUATE AND COMPARE THE RELATIONSHIP OF CHIN  
TO LOWER LIP IN SKELETAL CLASS I AND SKELETAL CLASS II  
MALOCCLUSIONS –A CEPHALOMETRIC STUDY"**



1986

By

**Dr.LAHARI.M**

Dissertation Submitted to

**Dr. NTR University of Health Sciences,  
Vijayawada, Andhra Pradesh.**

In partial fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

**UNDER THE GUIDANCE OF**

**Dr. M. THIRUMAL NAIK**

**PROFESSOR**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
MALLARAM, NIZAMABAD-503003,  
TELANGANA.**

**2015-2018**

I

*Potluri*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## MEGHNA INSTITUTE OF DENTAL SCIENCES NIZAMABAD – 503003. TELANGANA

### CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled “A STUDY TO EVALUATE AND COMPARE THE RELATIONSHIP OF CHIN TO LOWER LIP IN SKELETAL CLASS I AND SKELETAL CLASS II MALOCCLUSIONS- A CEPHALOMETRIC STUDY” is a bonafide research work done by **Dr.LAHARI**. Min partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Orthodontics and Dentofacial Orthopaedics.

Date: 8.12.17

Place: Nizamabad

Signature of the Guide

**Dr.M. THIRUMAL NAIK**  
**Professor**

Department of Orthodontics  
and Dentofacial Orthopaedics



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that the dissertation entitled "A STUDY TO EVALUATE AND COMPARE THE RELATIONSHIP OF CHIN TO LOWER LIP IN SKELETAL CLASS I AND SKELETAL CLASS II MALOCCLUSIONS- A CEPHALOMETRIC STUDY" is the original work done by **Dr.LAHARI.M** bearing registration No: **D159608066**, pursuing post graduation from 2015-2018 in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

**Dr. E. SEENA NAIK, M.D.S.,**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr.M. THIRUMAL NAIK, M.D.S.,**  
Professor  
Department of Orthodontics and  
Dentofacial Orthopedics,  
Meghna Institute of Dental Sciences,  
Nizamabad.

**Dr.M. PRATAP KUMAR, M.D.S.,**  
Principal & Professor  
Meghna Institute of Dental Sciences,  
Nizamabad.  
Telangana.

**Dr.K.NANDA KUMAR, M.D.S.,**  
Dean & HOD,  
Director of post Graduate studies,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

IN

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation/thesis entitled "A STUDY TO EVALUATE AND COMPARE THE RELATIONSHIP OF CHIN TO LOWER LIP IN SKELETAL CLASS I AND SKELETAL CLASS II MALOCCLUSIONS- A CEPHALOMETRIC STUDY" is a bonafide and genuine research work carried out by me under the guidance of **Dr.M. THIRUMAL NAIK. M.D.S,PROFESSOR**, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 8.12.17

*Laahari*  
Signature of the candidate

Place: Nizamabad.

**Dr.LAHARI.M**





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## **"TO EVALUATE THE BOND STRENGTH OF BRACKETS AFTER EXPIRATION OF LIGHT CURE AND SELF CURE COMPOSITES"**



By

**Dr. V.RAJASHEKAR REDDY**

Dissertation Submitted to

**Dr. NTR University of Health Sciences,**

**Vijayawada, Andhra Pradesh.**

In partial fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

UNDER THE GUIDANCE OF

**Dr. E. SEENA NAIK**

**PROFESSOR & HOD**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003,**

**TELANGANA.**

**2015-2018**

**I**

*Potkura*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation/thesis entitled "**TO EVALUATE THE BOND STRENGTH OF BRACKETS AFTER EXPIRATION OF LIGHT CURE AND SELF CURE COMPOSITES**" is a bonafide and genuine research work carried out by me under the guidance of **Dr. E. SEENA NAIK. M.D.S.**, PROFESSOR & HOD, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 11/12/17

Place: NIZAMABAD

*Rajashekar*  
Signature of the candidate

Dr. V. RAJASHEKAR REDDY





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## MEGHNA INSTITUTE OF DENTAL SCIENCES NIZAMABAD – 503003. TELANGANA

### CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled “TO EVALUATE THE BOND STRENGTH OF BRACKETS AFTER EXPIRATION OF LIGHT CURE AND SELF CURE COMPOSITES” is a bonafide research work done by Dr. V.RAJASHEKAR REDDY in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in the Department of Orthodontics and Dentofacial Orthopaedics.

Date: 11/12/17.  
Place: NIZAMABAD.

Signature of the Guide

**Dr. E. SEENA NAIK**  
**Professor & HOD**

Department of Orthodontics  
and Dentofacial Orthopaedics

III

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)


Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

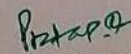
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in


## Certificate



This is to certify that the dissertation entitled "TO EVALUATE THE BOND STRENGTH OF BRACKETS AFTER EXPIRATION OF LIGHT CURE AND SELF CURE COMPOSITES" is the original work done by **Dr. V.RAJASHEKAR REDDY** bearing registration No: **D159608068**, pursuing post-graduation from 2015-2018 in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

  
**Dr. E. SEENA NAIK, M.D.S.,**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

  
**Dr. M. PRATAP KUMAR, M.D.S.,**  
Principal & Professor  
Meghna Institute of Dental Sciences,  
Nizamabad.  
Telangana.

  
**Dr. K. NANDA KUMAR**  
Dean & H.O.D.,  
Director of post graduate studies,  
Department of Conservative Dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana

IV

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

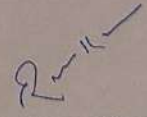
KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES  
WARANGAL

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation/thesis entitled "**EVALUATION OF MICROLEAKAGE UNDER ORTHODONTIC BRACKETS BONDED WITH THREE DIFFERENT ADHESIVE SYSTEMS ON TWO DIFFERENT SURFACES - IN VITRO STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr. M. THIRUMAL NAIK. M.D.S, PROFESSOR**, Department of Orthodontics and Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 13-12-2018  
Place: NIZAMABAD

  
Signature of the candidate  
**Dr. RAVIKANTH KANJARLA**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD – 503003. TELANGANA

## CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled “**EVALUATION OF MICROLEAKAGE UNDER ORTHODONTIC BRACKETS BONDED WITH THREE DIFFERENT ADHESIVE SYSTEMS ON TWO DIFFERENT SURFACES**” is a bonafide research work done by **Dr.RAVIKANTH KANJARLA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in the Department of Orthodontics and Dentofacial Orthopaedics.

Date: 13-12-2018

Place: NIZAMABAD

Signature of the Guide

**Dr.M.THIRUMAL NAIK, M.D.S**

Professor

Department of Orthodontics and  
Dentofacial Orthopaedics

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

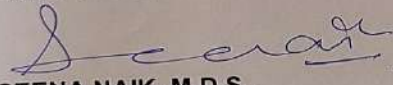
(Managed by : VELS EDUCATION SOCIETY)

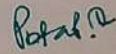
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

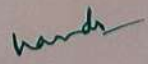
## CERTIFICATE



This is to certify that the dissertation entitled "**EVALUATION OF MICROLEAKAGE UNDER ORTHODONTIC BRACKETS BONDED WITH THREE DIFFERENT ADHESIVE SYSTEMS ON TWO DIFFERENT SURFACES**" is the original work done by **Dr. RAVIKANTH KANJARLA** bearing registration No: **16200107001D**, pursuing post-graduation from 2016-2019 in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

  
**Dr. E. SEENA NAIK, M.D.S.,**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

  
**Dr.M. PRATAP KUMAR, M.D.S.,**  
Principal & Professor  
Meghna Institute of Dental Sciences,  
Nizamabad.  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

  
**Dr. K. NANDA KUMAR, M.D.S.**  
Dean & H.O.D,  
Director of post graduate studies,  
Department of Conservative Dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana  
**Dr. K. NANDA KUMAR**  
**DEAN.**  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"EVALUATION OF SHEAR BOND STRENGTH OF REBONDED  
BRACKETS ON DIFFERENT SURFACES WITH DIFFERENT  
METHODS OF ADHESIVE REMOVAL ON BRACKET BASE" -  
AN IN VITRO STUDY**



By

**Dr. SNEHA BIRLANGI**

Dissertation Submitted to

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES**

**WARANGAL**

In partial fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

UNDER THE GUIDANCE OF

**Dr. B. SANTOSH REDDY, MDS**

**READER**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003,**

**TELANGANA.**

**2016-2019**

I

*Potluri R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in


KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES  
WARANGAL

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation/thesis entitled "**EVALUATION OF SHEAR BOND STRENGTH OF REBONDED BRACKETS ON DIFFERENT SURFACES WITH DIFFERENT METHODS OF ADHESIVE REMOVAL ON BRACKET BASE- IN VITRO STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr.B.SANTOSH REDDY. M.D.S, READER**, Department of Orthodontics and Dentofacial Orthopaedics, Meghna institute of dental Sciences, Nizamabad.

Date: 28/11/18  
Place: Nizamabad

  
Signature of the candidate  
**Dr. SNEHA BIRLANGI**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

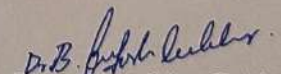
## MEGHNA INSTITUTE OF DENTAL SCIENCES NIZAMABAD – 503003. TELANGANA

### CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled “**EVALUATION OF SHEAR BOND STRENGTH OF REBONDED BRACKETS ON DIFFERENT SURFACES WITH DIFFERENT METHODS OF ADHESIVE REMOVAL ON BRACKET BASE – IN VITRO STUDY**” is a bonafide research work done by **Dr. SNEHA BIRLANGI** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in the Department of Orthodontics and Dentofacial Orthopaedics.

Date: 28/11/18  
Place: Nizamabad

  
Signature of the Guide

**Dr. B.SANTOSH REDDY**  
**READER**

Department of Orthodontics  
and Dentofacial Orthopaedics





# MEGHNA INSTITUTE OF DENTAL SCIENCES

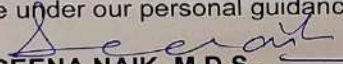
(Managed by : VELS EDUCATION SOCIETY)

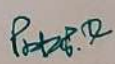
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in


## Certificate



This is to certify that the dissertation entitled “**EVALUATION OF SHEAR BOND STRENGTH OF REBONDED BRACKETS ON DIFFERENT SURFACES WITH DIFFERENT METHODS OF ADHESIVE REMOVAL ON BRACKET BASE- IN VITRO STUDY**” is the original work done by **Dr. SNEHA BIRLANGI** bearing registration No: **16200107002D**, pursuing post-graduation from 2016-2019 in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

  
**Dr. E. SEENA NAIK, M.D.S.,**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

  
**Dr. M. PRATAP KUMAR, M.D.S.,**  
Principal & Professor  
Meghna Institute of Dental Sciences,  
Nizamabad,  
Telangana.

  
**Dr. K. NANDA KUMAR**  
Dean & H.O.D,  
Director of post graduate studies,  
Department of Conservative Dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana

IV

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## COMPARATIVE EVALUATION OF METAL ION RELEASE FROM TWO DIFFERENT ORTHODONTIC MINI IMPLANTS IN DIFFERENT MEDIA” - AN IN VITRO STUDY



By

**Dr. MITTAPELLY SRIKANTH**

Dissertation Submitted to

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES**

**WARANGAL**

In partial fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

UNDER THE GUIDANCE OF

**Dr. E.SEENA NAIK**

**PROFESSOR & HOD**

**MEGHNA INSTITUTE OF DENTAL SCIENCES,**

**MALLARAM, NIZAMABAD-503003,**

**TELANGANA.**

**2016-2019**

I

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES  
WARANGAL

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation/thesis entitled "**COMPARATIVE EVALUATION OF METAL ION RELEASE FROM TWO DIFFERENT ORTHODONTIC MINI IMPLANTS IN DIFFERENT MEDIA - AN IN VITRO STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr. E. SEENA NAIK M.D.S, PROFESSOR & HOD,** Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 28/11/2018  
Place: Nizamabad

*M. Srikanth*  
Signature of the candidate  
**Dr. MITTAPELLY SRIKANTH**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD – 503003. TELANGANA

## CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled “**COMPARATIVE EVALUATION OF METAL ION RELEASE FROM DIFFERENT ORTHODONTIC MINI IMPLANTS IN DIFFERENT MEDIA -AN IN VITRO STUDY**” is a bonafide research work done by **Dr. MITTAPELLY SRIKANTH** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in the Department of Orthodontics and Dentofacial Orthopaedics.

Date: 28/11/2018  
Place: Nizamabad

Signature of the Guide  
**Dr. E. SEENA NAIK**  
Professor & HOD  
Department of Orthodontics  
and Dentofacial Orthopaedics





# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in


## Certificate



This is to certify that the dissertation entitled “**COMPARATIVE EVALUATION OF METAL ION RELEASE FROM TWO DIFFERENT ORTHODONTIC MINI IMPLANTS IN DIFFERENT MEDIA**” - AN IN VITRO STUDY” is the original work done by **Dr. MITTAPELLY SRIKANTH** bearing registration No: **16200107003D**, pursuing post-graduation from 2016-2019 in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under our personal guidance and supervision.

  
**Dr. E. SEENA NAIK, M.D.S.,**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

  
**Dr. M. PRATAP KUMAR, M.D.S.,**  
Principal & Professor  
Meghna Institute of Dental Sciences,  
Nizamabad.  
Telangana.

  
**Dr. K. NANDA KUMAR**  
Dean & H.O.D,  
Director of post graduate studies,  
Department of Conservative Dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana

IV

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "COMPARING TORQUE EXPRESSION BETWEEN CUSTOM MADE TORQUE MEASURING DEVICE AND CEPHALOMETRIC RADIOGRAPHS"

AN IN VITRO STUDY



By

**Dr. TEJASVI MADAPATHI**  
(2017- 2020)

Dissertation Submitted to the  
**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES  
WARANGAL.**

In Partial Fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**  
IN THE SPECIALITY OF  
**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

Under the guidance of  
**Dr. E. SEENA NAIK. MDS**  
**PROFESSOR &HOD**



**MEGHNA INSTITUTE OF DENTAL SCIENCES**  
**NIZAMABAD- 503003**  
**TELANGANA**

I

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES  
WARANGAL.

## DECLARATION BY THE CANDIDATE



I do hereby declare that this Dissertation/thesis entitled "**COMPARING TORQUE EXPRESSION BETWEEN CUSTOM MADE TORQUE MEASURING DEVICE AND CEPHALOMETRIC RADIOGRAPHS - AN IN VITRO STUDY**" is a bonafide and genuine work carried out by me under the guidance of **Dr. E. SEENA NAIK**, Professor and HOD, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad, Telangana.

Date: 29/12/2019

Place: Nizamabad

Signature of the candidate

**Dr. TEJASVI MADAPATHI**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD – 503003, TELANGANA.

Certificate by the Guide



This is to certify that the Dissertation/thesis entitled “**COMPARING TORQUE EXPRESSION BETWEEN CUSTOM MADE TORQUE MEASURING DEVICE AND CEPHALOMETRIC RADIOGRAPHS - AN IN VITRO STUDY**” is a original work done by **Dr. TEJASVI MADAPATHI**, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. This work was done under my personal guidance, supervision and to my satisfaction.

Signature of the Guide

**Dr. E. SEENA NAIK MDS**

Professor & HOD  
Department of Orthodontics and  
Dentofacial Orthopaedics  
Meghna Institute of Dental  
Sciences.

Date: 29/12/2019

Place: NIZAMABAD

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

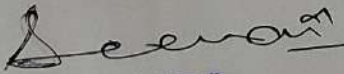
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

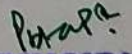
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## CERTIFICATE



This is to certify that **Dr. TEJASVI MADAPATHI**, pursuing post graduation from 2017-2020 in **Department of Orthodontics and Dentofacial Orthopaedics**, bearing registration number: 17200107001D, Meghna Institute Of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery has submitted the dissertation/thesis entitled "**COMPARING TORQUE EXPRESSION BETWEEN CUSTOM MADE TORQUE MEASURING DEVICE AND CEPHALOMETRIC RADIOGRAPHS - AN IN VITRO STUDY**" is an original work done under our personal guidance and supervision.

  
**Dr. E. SEENA NAIK, MDS**  
**PROFESSOR & HOD**  
**DEPT. OF ORTHODONTICS**  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad Dist.  
Department of Orthodontics and  
Dentofacial orthopaedics  
Meghna Institute of Dental Sciences  
Nizamabad.

  
**Dr. M. PRASAD KUMAR, MDS**  
**PRINCIPAL**  
**Meghna Institute of Dental Sciences**  
**MALLARAM (V), NIZAMABAD**  
Principal & HOD  
Department of conservative  
and endodontics  
Meghna Institute of Dental  
Sciences  
Nizamabad.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## EVALUATION OF PLAQUE ACCUMALATION IN APC PLUS ADHESIVE SYSTEM AND CONVENTIONAL ADHESIVE SYSTEM



By

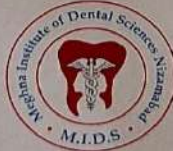
**Dr. A. KAMESWAR RAO**

(2018- 2021)

Dissertation Submitted to the  
**KALOJI NARAYANA UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL.**

In Partial Fulfilment of the requirements for the degree of  
**MASTER OF DENTAL SURGERY**

Under the guidance of  
**Dr. B.SANTOSH REDDY. MDS**



**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA**

*Pantab R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## KALOJI NARAYANA UNIVERSITY OF HEALTH SCIENCES, WARANGAL.

### DECLARATION BY THE CANDIDATE



I do hereby declare that this Dissertation entitled "**EVALUATION OF PLAQUE ACCUMALATION IN APC PLUS ADHESIVE SYSTEM AND CONVENTIONAL ADHESIVE SYSTEM**" is a bonafide and genuine work carried out by me under the guidance of **Dr.B.SANTOSH REDDY**, Reader, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad, Telangana.

Date: 13/02/2021

Place: Nizamabad

*A. Kameswar Rao*  
Signature of the candidate

**Dr. A. KAMESWAR RAO**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.**

## **Certificate by the Guide**



This is to certify that the dissertation entitled "**EVALUATION OF PLAQUE ACCUMULATION IN APC PLUS ADHESIVE SYSTEM AND CONVENTIONAL ADHESIVE SYSTEM**" is an Original work done by **Dr. A.KAMESWAR RAO**, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of **Master of Dental Surgery**. This work was done under my personal guidance, supervision and to my satisfaction.

*B. Santosh Reddy*  
Signature of the Guide  
Reader  
Dept. of Orthodontics  
M.I.D.S. NIZAMABAD.

**Dr. B. SANTOSH REDDY, M.D.S.,**

Reader,  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad,





# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)

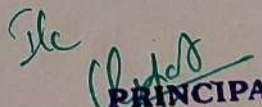
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that **Dr. A. KAMESWAR RAO**, pursuing post-graduation from 2018-2021 with Registration N.o: 18200107001 in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery has submitted the dissertation entitled "**EVALUATION OF PLAQUE ACCUMALATION IN APC PLUS ADHESIVE SYSTEM AND CONVENTIONAL ADHESIVE SYSTEM**" is an original work done under our personal guidance and supervision.

  
**Dr. E. SEENA NAIK, M.D.S**  
Professor & HOD  
**DEPT. OF ORTHODONTICS**  
Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad,  
Telangana.

  
**PRINCIPAL**  
**Meghna Institute of Dental Sciences**  
**Dr. V. PRATAP KUMAR, M.D.S.**  
Principal & HOD,  
Department of Conservative dentistry &  
Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad,  
Telangana.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"A STUDY TO EVALUATE THE EFFICIENCY OF IZC IMPLANTS ON  
THE MAXILLARY DENTITION IN THE TREATMENT OF ANGLE'S  
CLASS II DIVISION 1 MALOCCLUSION -AN INVIVO STUDY"**



By  
**DR.B.SAI SHRUTHI**

(2019 - 2022)

Dissertation Submitted to the  
**KALOJI NARAYANA UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL.**

In Partial Fulfillment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

**IN THE SPECIALITY OF**

**ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

Under the guidance of  
**Dr.M.THIRUMAL NAIK M.D.S**  
**PROFESSOR**



**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KALOJI NARAYANA UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL.

## DECLARATION BY THE CANDIDATE



I do hereby declare that this Dissertation entitled "**A STUDY TO EVALUATE THE EFFICIENCY OF IZC IMPLANTS ON THE MAXILLARY DENTITION IN THE TREATMENT OF ANGLE'S CLASS II DIVISION 1 MALOCCLUSION – AN INVIVO STUDY**" is a bonafide and genuine work carried out by me under the guidance of **DR. M.THIRUMAL NAIK, Professor**, Department of Orthodontics and Dentofacial Orthopaedics , Meghna Institute of Dental Sciences, Nizamabad, Telangana.

Date: 30/12/2021  
Place: Nizamabad

*B. Sai Shruthi*  
Signature of the candidate  
**DR.B. SAI SHRUTHI**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**MEGHNA INSTITUTE OF DENTAL SCIENCES**

**NIZAMABAD – 500003, TELANGANA STATE.**

## **CERTIFICATE BY THE GUIDE**



This is to certify that the dissertation entitled **A STUDY TO EVALUATE THE EFFICIENCY OF IZC IMPLANTS ON THE MAXILLARY DENTITION IN THE TREATMENT OF ANGLE'S CLASS II DIVISION 1 MALOCCLUSION-AN INVIVO STUDY**" is an Original work done by **DR. B.SAI SHRUTHI**, Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of **Master of Dental Surgery**. This work was done under my personal guidance, supervision and to my satisfaction.

Signature of the Guide

**Dr. M. THIRUMAL NAIK,**

**PROFESSOR,**

Department of Orthodontics and

**PROFESSOR**  
Dentofacial Orthopaedics

Meghna Institute of Dental Sciences,  
Mallaram Vill., Varni Road, Nizamabad Dist.

Nizamabad, Telangana.

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



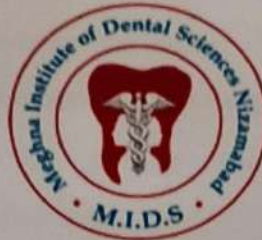


# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## CERTIFICATE



This is to certify that **Dr. B.SAI SHRUTHI** , pursuing post-graduation from 2019-2022 with Registration No: 19200107001D in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery has submitted the dissertation entitled "**A STUDY TO EVALUATE EFFICIENCY OF IZC IMPLANTS ON THE MAXILLARY DENTITION IN THE TREATMENT OF ANGLE'S CLASS II DIVISION 1 MALOCCLUSION-AN INVIVO STUDY**" is an original work done under our personal guidance and supervision.

*Seena*

**DR. E. SEENA NAIK, MDS**

Professor & HOD,

Department of Orthodontics and

Dentofacial orthopaedics,

**PROFESSOR & HOD**  
**DEPT. OF ORTHODONTICS**  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad, Dist.

Meghna Institute of Dental Sciences,

Nizamabad,

Telangana.

*Pratapa*

**DR. M. PRATAP KUMAR, MDS**

**PRINCIPAL**  
Meghna Institute of Dental Sciences,  
MALLARAM (V), NIZAMABAD.

Department of Conservative dentistry &

Endodontics,

Meghna Institute of Dental Sciences,

Nizamabad,

Telangana.

*Pratapa*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"A CLINICAL EFFICIENCY OF PROPHYLACTIC BLASTING USING  
ALUMINIUM OXIDE AIR POWDER AND GLYCINE AIR POWDER  
ON RATE OF SPACE CLOSURE : AN IN VIVO STUDY"**



By

**DR.M.SWATHI**

**(2019 - 2022)**

Dissertation Submitted to the

**KALOJI NARAYANA UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL.**

**In Partial Fulfillment of the requirements for the degree of  
MASTER OF DENTAL SURGERY  
IN THE SPECIALITY OF  
ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS**

Under the guidance Of

**Dr. B.SANTOSH REDDY M.D.S**

**PROFESSOR**



**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA**

*Pontu R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD – 500003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled“ **A CLINICAL EFFICIENCY OF PROPHYLACTIC BLASTING USING ALUMINIUM OXIDE AIR POWDER AND GLYCINE AIR POWDER ON RATE OF SPACE CLOSURE: AN IN VIVO STUDY** is an Original work done by **DR. M.SWATHI** , Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of **Master of Dental Surgery**.This work was done under my personal guidance, supervision and to my satisfaction.

*Dr. B. Santosh Reddy*

Signature of the Guide

**Dr. B.SANTOSH REDDY MDS,**

PROFESSOR ,

Department of Orthodontics and

**DEPT. OF ORTHODONTICS**

Dentofacial Orthopaedics

Mallaram (V), Nizamabad

Meghna Institute of Dental Sciences,

Nizamabad , Telangana .

III

*Dr. B. Santosh Reddy*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

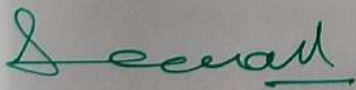
(Managed by : VELS EDUCATION SOCIETY)

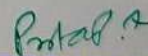
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## CERTIFICATE



This is to certify that **DR .M.SWATHI** , pursuing post-graduation from 2019-2022 with Registration No: 19200107002D, in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery has submitted the dissertation entitled '**A CLINICAL EFFICIENCY OF PROPHYLACTIC BLASTING USING ALUMINIUM OXIDE AND GLYCINE AIR POWDER :AN IN VIVO STUDY**' is an original work done under our personal guidance and supervision.

  
**DR. E .SEENA NAIK, MDS**  
Professor & HOD,  
Department of Orthodontics and  
Dentofacial Orthopaedics  
Meghna Institute of Dental Sciences,  
Nizamabad,  
Telangana.

  
**DR. M. PRATAP KUMAR, MDS**  
Principal & HOD,  
Department of Conservative dentistry &  
Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad,  
Telangana.





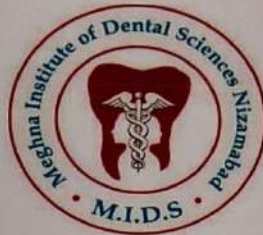
# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**KALOJI NARAYANA UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL.**

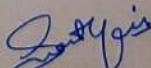
## **DECLARATION BY THE CANDIDATE**



I do hereby declare that this Dissertation entitled " **A CLINICAL EFFICIENCY OF PROPHYLACTIC BLASTING USING ALUMINIUM OXIDE AIR POWDER AND GLYCINE AIR POWDER ON RATE OF SPACE CLOSURE: AN INVIVO STUDY** is a bonafide and genuine work carried out by me under the guidance of **DR. B.SANTOSH REDDY M.D.S, Professor,** Department of Orthodontics and Dentofacial Orthopaedics , Meghna Institute of Dental Sciences, Nizamabad, Telangana.

Date: 30-12-2021

Place: Nizamabad

  
Signature of the candidate  
**DR.M.SWATHI**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

" A STUDY TO EVALUATE PERIODONTAL BONE CHANGES AFTER  
ORTHODONTIC TOOTH MOVEMENT IN SKELETAL CLASS I AND  
SKELETAL CLASS II PATIENTS"  
-A CONE-BEAM COMPUTED TOMOGRAPHIC STUDY"



By  
DR.M.UDAY SAGAR  
(2019 - 2022)

Dissertation Submitted to the  
KALOJI NARAYANA UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL.

In Partial Fulfillment of the requirements for the degree of  
MASTER OF DENTAL SURGERY  
IN THE SPECIALITY OF  
ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

Under the guidance of  
Dr. E.SEENA NAIK MDS  
PROFESSOR & HOD



MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD- 503003  
TELANGANA





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

KALOJI NARAYANA UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL.

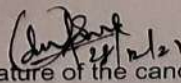
## DECLARATION BY THE CANDIDATE



I do hereby declare that this Dissertation entitled "**A STUDY TO EVALUATE PERIDONTAL BONE CHANGES AFTER ORTHODONTIC TOOTH MOVEMENT IN SKELETAL CLASS I AND SKELETAL CLASS II PATIENTS- A CONE BEAM COMPUTED TOMOGRAPHIC STUDY**" is a bonafide and genuine work carried out by me under the guidance of **DR. E.SEENA NAIK, Professor & HOD**, Department of Orthodontics and Dentofacial Orthopaedics , Meghna Institute of Dental Sciences, Nizamabad, Telangana.

Date: 28-12-2021

Place: Nizamabad

  
Signature of the candidate  
**DR.M.UDAY SAGAR**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in

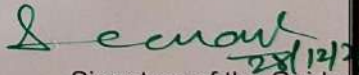
MEGHNA INSTITUTE OF DENTAL SCIENCES

NIZAMABAD – 500003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled “A STUDY TO EVALUATE PERIDENTAL BONE CHANGES AFTER ORTHODONTIC TOOTH MOVEMENT IN SKELETAL CLASS I AND SKELETAL CLASS II PATIENTS- A CONE BEAM COMPUTED TOMOGRAPHIC STUDY” is an Original work done by **DR. M.UDAY SAGAR** , Department of Orthodontics and Dentofacial Orthopaedics, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of **Master of Dental Surgery**. This work was done under my personal guidance, supervision and to my satisfaction.

  
Signature of the Guide  
**PROFESSOR & HOD**  
**DEPT. OF ORTHODONTICS**  
**DR. POOJA NAIK MDS**  
Meghna Institute of Dental Sciences  
Nizamabad Dist.

Department of Orthodontics and  
Dentofacial Orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad , Telangana .





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## CERTIFICATE



This is to certify that **DR.M.UDAY SAGAR** , pursuing post-graduation from 2019-2022 with Registration No: 19200107003D in the **Department of Orthodontics and Dentofacial Orthopaedics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery has submitted the dissertation entitled "**A STUDY TO EVALUATE PERIDENTAL BONE CHANGES AFTER ORTHODONTIC TOOTH MOVEMENT IN SKELETAL CLASS I AND SKELETAL CLASS II PATIENTS- A CONE BEAM COMPUTED TOMOGRAPHIC STUDY**" is an original work done under our personal guidance and supervision.

*Seena*  
28/12/21  
**DR. E. SEENA NAIK, MDS**  
Professor & HOD  
**DEPT. OF ORTHODONTICS**  
Department of Orthodontics and  
Dentofacial orthopaedics,  
Meghna Institute of Dental Sciences,  
Nizamabad,  
Telangana.

*Pratap*  
**DR. M. PRATAP KUMAR, MDS**  
Principal  
**MALLARAM (V), NIZAMABAD**  
Department of Conservative dentistry &  
Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad,  
Telangana.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "EVALUATION OF HEMODYNAMIC AND OXYGEN SATURATION VARIABILITY DURING DIFFERENT STAGES OF PERIODONTAL FLAP SURGERY."



By  
**Dr.SHIRAZ QADIR**

Dissertation Submitted to the  
**Dr. N.T.R. University of Health Sciences,**  
**Vijayawada, Andhra Pradesh**

In Partial Fulfilment  
of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

*In the speciality of*

**DEPARTMENT OF PERIODONTICS**

**MEGHNA INSTITUTE OF DENTAL SCIENCES**  
**NIZAMABAD-503003**  
**TELANGANASTATE**  
**2014-2017**

*Prakash*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "EVALUATION OF HEMODYNAMIC AND OXYGEN SATURATION VARIABILITY DURING DIFFERENT STAGES OF PERIODONTAL FLAP SURGERY" is a bonafide and genuine research work carried out by me under the guidance of Dr. M.JAMES MANOHAR, Professor & Head of the department, Department of Periodontics, Meghna Institute of Dental Sciences, Nizamabad.

Date: 01-12-2016  
Place: NIZAMABAD

  
Signature of the candidate  
Dr. SHIRAZ QADIR



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “EVALUATION OF HEMODYNAMIC AND OXYGEN SATURATION VARIABILITY DURING DIFFERENT STAGES OF PERIODONTAL FLAP SURGERY” is a bonafide research work done by **Dr.SHIRAZ QADIR** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Periodontics.

Date: 01-12-2016

Place: NIZAMABAD

Signature of the Guide

**Dr.M.JAMES MANOHAR,**  
PROFESSOR & HOD,  
DEPT. OF PERIODONTICS.





# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in


## Certificate



This is to certify that **Dr.SHIRAZ QADIR** bearing registration No: **D149606025** pursuing post graduation from 2014 to 2017 in the **Department of Periodontics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery submitted the dissertation entitled "**EVALUATION OF HEMODYNAMIC AND OXYGEN SATURATION VARIABILITY DURING DIFFERENT STAGES OF PERIODONTAL FLAP SURGERY**". This work was done under our personal guidance and supervision.

  
**Dr. M. JAMES MANOHAR, M.D.S**  
Professor & HOD,  
Department of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

  
**Dr. M. PRATAP KUMAR, M.D.S**  
Principal & Professor,  
Department of conservative  
& endodontics  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

  
**Dr. K. NANDAKUMAR, M.D.S**  
Dean and Professor,  
Director of Post Graduate Studies,  
Department of conservative & endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

IV

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"ESTIMATION OF OSTEOPONTIN IN SERUM OF PATIENTS WITH AND  
WITHOUT MYOCARDIAL INFARCTION IN COMPARISON WITH  
PERIODONTAL STATUS."**



By

**Dr. R.VIJAY**

Dissertation Submitted to the  
**Dr. N.T.R. University of Health Sciences,**  
**Vijayawada, Andhra Pradesh**

In Partial Fulfilment  
of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

*In the speciality of*  
**DEPARTMENT OF PERIODONTICS**

**MEGHNA INSTITUTE OF DENTAL SCIENCES**  
**NIZAMABAD-503 003**  
**TELANGANA STATE**  
**2014-2017**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

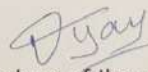
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**ESTIMATION OF OSTEOPONTIN IN SERUM OF PATIENTS WITH AND WITHOUT MYOCARDIAL INFARCTION IN COMPARISON WITH PERIODONTAL STATUS.**" is a bonafide and genuine research work carried out by me under the guidance of **Dr.C.Hemachandra Babu**, professor and HOD, Department of Periodontics, Meghna Institute of Dental sciences, Nizamabad.

Date: 11/12/2017  
Place: Nizamabad.

  
Signature of the candidate  
Dr. R.Vijay



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503 003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “ESTIMATION OF OSTEOPONTIN IN SERUM OF PATIENTS WITH AND WITHOUT MYOCARDIAL INFARCTION IN COMPARISON WITH PERIODONTAL STATUS.” is a bonafide research work done by **Dr. R. Vijay** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Periodontics.

Signature of the Guide

**Dr. C. Hemachandra Babu**  
Professor and HOD  
Department of Periodontics

**PROFESSOR & HOD**  
**DEPT. OF PERIODONTICS**  
Meghna Institute of Dental Science  
MALLARAM (V), Nizamabad. (T.S)

Date: 11/12/2017

Place: NIZAMABAD

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that **Dr. R.Vijay** bearing registration No:D149606027, pursuing post graduation from 2014 to 2017 in the **Department of Periodontics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery submitted the dissertation entitled "**ESTIMATION OF OSTEOPONTIN IN SERUM OF PATIENTS WITH AND WITHOUT MYOCARDIAL INFARCTION IN COMPARISON WITH PERIODONTAL STATUS.**" This work was done under our personal guidance and supervision.

*Collem*

**Dr.C.HEMACHANDRA BABU, M.D.S**  
Professor and HOD,  
Department of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

*Pratap*

**Dr. K. PRATAP KUMAR, M.D.S**  
Principal and professor  
Department of Conservative Dentistry  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

*handa*

**Dr. K.NANDA KUMAR, M.D.S**  
Dean, Professor and HOD  
Department of Conservative Dentistry  
& Endodontics.  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

*Pratap*

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"ESTIMATING SALIVARY VISFATIN LEVELS IN PERIODONTALLY  
DISEASED AND HEALTHY PATIENTS - A CLINICAL-BIOCHEMICAL  
STUDY."**



By

**Dr. M. APOORVA**

Dissertation Submitted to the

**Dr. N.T.R. University of Health Sciences,  
Vijayawada, Andhra Pradesh**

In Partial Fulfilment  
Of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

*In the speciality of*  
**DEPARTMENT OF PERIODONTICS**

**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD-503 003  
TELANGANA  
2015-2018**

*Poorva*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**Estimating salivary visfatin levels in periodontally diseased and healthy patients- A clinical-biochemical study.**" is a bonafide and genuine research work carried out by me under the guidance **Dr. C. HEMACHANDRA BABU, M.D.S.** Professor and Head of the Department, Department of Periodontics, Meghna Institute of Dental sciences, Nizamabad.

Date:

Place: *Nizamabad*

*Apoorva*  
Signature of the candidate

Dr. M. APOORVA



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “Estimating salivary visfatin levels in periodontally diseased and healthy patients- A clinical-biochemical study.” is a bonafide research work done by DR. M. APOORVA in partial fulfilment of the requirement for the degree of Master of Dental Surgery in Department of Periodontics.

Date:

Place: Nizamabad.

Signature of the Guide

**Dr.C.HEMACHANDRA BABU**  
Professor & HOD  
Department Of Periodontics.

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





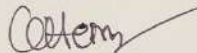
# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr. M. APOORVA** bearing registration No: **D159606061**, pursuing postgraduation from 2015 to 2018 in the **Department of Periodontics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery submitted the dissertation entitled "**Estimating salivary visfatin levels in periodontally diseased and healthy patients- A clinical- biochemical study.**" This work was done under our personal guidance and supervision.

  
**Dr. C. HEMACHANDRA BABU, M.D.S.**  
Professor & HOD,  
Department of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

  
**Dr. M. PRATAP KUMAR, M.D.S.**  
Principal,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

  
**Dr. K. NANDA KUMAR, M.D.S.**  
Dean, Professor and HOD,  
Department of Conservative Dentistry &  
Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana state.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

"ROSUVASTATIN: AN ADJUNCT TO SCALING AND ROOT PLANING"



By

**Dr. G. SINDHU**

Dissertation Submitted to the  
**Dr. N.T.R. University of Health Sciences,**  
**Vijayawada, Andhra Pradesh**

In Partial Fulfilment  
of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

*In the speciality of*  
**DEPARTMENT OF PERIODONTICS**

**MEGHNA INSTITUTE OF DENTAL SCIENCES**  
**NIZAMABAD-503 003**  
**TELANGANA STATE**  
**2015-2018**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

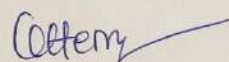
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503 003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "**Rosuvastatin: An adjunct to scaling and root planing**" is a bonafide research work done by **Dr. G. Sindhu** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Periodontics.

Date: 11/12/17  
Place: Nizamabad.

  
Signature of the Guide  
**Dr. C. Hemachandra Babu**  
Professor and HOD  
Department of Periodontics



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate



This is to certify that **Dr. G. Sindhu** bearing registration No:D159606059, pursuing post graduation from 2015 to 2018 in the **Department of Periodontics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery submitted the dissertation entitled "**Rosuvastatin: An adjunct to scaling and root planing**". This work was done under our personal guidance and supervision.

*Colferm*  
**Dr.C.HEMACHANDRA BABU, M.D.S**  
Professor and HOD,  
Department of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

*Pratap*  
**Dr. K. PRATAP KUMAR, M.D.S**  
Principal,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

*handa*  
**Dr. K.NANDA KUMAR, M.D.S**  
Dean, Professor and HOD  
Department of Conservative Dentistry  
& Endodontics.  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"ESTIMATION OF YKL-40 ACUTE PHASE PROTEIN IN SERUM OF  
PATIENTS WITH PERIODONTAL DISEASE AND HEALTHY INDIVIDUALS-  
A CLINICAL-BIOCHEMICAL STUDY."**



By

**Dr. S. SRINU**

Dissertation Submitted to the

**Dr. N.T.R. University of Health Sciences,  
Vijayawada, Andhra Pradesh**

In Partial Fulfilment  
of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

*In the speciality of*  
**DEPARTMENT OF PERIODONTICS**

**MEGHNA INSTITUTE OF DENTAL SCIENCES**

**NIZAMABAD-503 003**

**TELANGANA**

**2015-2018**

I

*Potkura.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

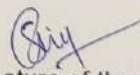
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**Estimation of YKL-40 acute phase protein in serum of patients with periodontal disease and healthy individuals- A clinical-biochemical study.**" is a bonafide and genuine research work carried out by me under the guidance **Dr. C. HEMACHANDRA BABU**, M.D.S. Professor and Head of the Department, Department of Periodontics, Meghna Institute of Dental sciences, Nizamabad.

Date: 11-12-2017  
Place: NIZAMABAD

  
Signature of the candidate  
Dr. S. SRINU





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. S. SRINU bearing registration No: D159606060, pursuing postgraduation from 2015 to 2018 in the Department of Periodontics, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery submitted the dissertation entitled "Estimation of YKL-40 acute phase protein in serum of patients with periodontal disease and healthy individuals- A clinical-biochemical study." This work was done under our personal guidance and supervision.

*Cottem*

Dr. C.HEMACHANDRA BABU, M.D.S.  
Professor & HOD,  
Department of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

*Pratap*

Dr. M.PRATAP KUMAR, M.D.S.  
Principal,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

*handa*

Dr. K. NANDA KUMAR, M.D.S.  
Dean, Professor and HOD,  
Department of Conservartive Dentistry &  
Endodontics.  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana state.

*Pratap*

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**“ESTIMATION OF PYRIDINOLINE CROSS LINKED  
CARBOXYTERMINAL TELOPEPTIDE OF TYPE 1 COLLAGEN  
(ICPT) IN GINGIVAL CREVICULAR FLUID AND SERUM FROM  
HEALTHY INDIVIDUALS AND PATIENTS WITH CHRONIC  
PERIODONTITIS” - A CLINICO-BIOCHEMICAL STUDY**



By

**Dr P. CHANDANA REDDY**

Registration no. 16201107006D

Dissertation Submitted to  
**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of  
**MASTER OF DENTAL SURGERY**  
In the speciality of  
**PERIODONTICS AND IMPLANTOLOGY**

**Meghna Institute of Dental Sciences  
Nizamabad, Telangana-503 003**

**2016-2019**

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES,

WARANGAL, TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "ESTIMATION OF PYRIDINOLINE CROSS LINKED CARBOXYTERMINAL TELOPEPTIDE OF TYPE 1 COLLAGEN (ICPT) IN GINGIVAL CREVICULAR FLUID AND SERUM FROM HEALTHY INDIVIDUALS AND PATIENTS WITH CHRONIC PERIODONTITIS"- A CLINICO-BIOCHEMICAL STUDY is a bonafide and genuine research work carried out by me under the guidance of Dr VINAY CHAVAN, Asst. Professor, Department of Periodontics and Implantology, Meghna Institute of Dental Sciences, Nizamabad.

Date:

19/11/2018

Place:

Nizamabad

*Chandana*

Signature of the Candidate

(Dr P. CHANDANA REDDY)

*Potkura*

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA.**

**CERTIFICATE BY THE GUIDE**

This is to certify that the dissertation entitled  
“ESTIMATION OF PYRIDINOLINE CROSS LINKED CARBOXYTERMINAL  
TELOPEPTIDE OF TYPE 1 COLLAGEN (ICPT) IN GINGIVAL  
CREVICULAR FLUID AND SERUM FROM HEALTHY INDIVIDUALS AND  
PATIENTS WITH CHRONIC PERIODONTITIS”- A CLINICO-BIOCHEMICAL  
STUDY is a bonafide research work done by Dr P. CHANDANA REDDY in  
partial fulfilment of the requirement for the degree of Master of Dental  
Surgery in Department of Periodontics.

Date:

Place:

Signature of the Guide

( Dr VINAY CHAVAN)

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





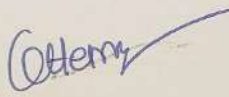
# MEGHNA INSTITUTE OF DENTAL SCIENCES

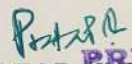
(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr P CHANDANA REDDY** bearing registration no. **16201107006D**, pursuing post-graduation from 2016-2019 in the Department Of Periodontics and Implantology, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled "**ESTIMATION OF PYRIDINOLINE CROSS LINKED CARBOXYTERMINAL TELOPEPTIDE OF TYPE 1 COLLAGEN (ICPT) IN GINGIVAL CREVICULAR FLUID AND SERUM FROM HEALTHY INDIVIDUALS AND PATIENTS WITH CHRONIC PERIODONTITIS**"- A CLINICO-BIOCHEMICAL STUDY as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
**Dr C. HEMACHANDRA BABU, MDS**  
Professor & HOD,  
Department of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

  
**Dr M. PRATAP KUMAR, MDS**  
Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

  
**DR. K. NANDA KUMAR, M.D.S**  
Dean & Director of post graduate studies,  
Professor & HOD,  
Department of Conservative dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "EVALUATION OF ERYTHROCYTE COUNT AND HEMOGLOBIN LEVELS IN PATIENTS WITH AGGRESSIVE AND CHRONIC PERIODONTITIS AFTER NON SURGICAL PERIODONTAL THERAPY"



By

**Dr NARESH KUMAR K**  
Registration no. 16201107005D

Dissertation Submitted to  
**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of  
**MASTER OF DENTAL SURGERY**

In the speciality of  
**PERIODONTICS AND ORAL IMPLANTOLOGY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD, TELANGANA-503 003**

**2016-2019**

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in


KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA.

## DECLARATION BY THE CANDIDATE

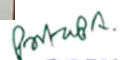
I hereby declare that this dissertation entitled "EVALUATION OF ERYTHROCYTE COUNT AND HEMOGLOBIN LEVELS IN PATIENTS WITH AGGRESSIVE AND CHRONIC PERIODONTITIS AFTER NON SURGICAL PERIODONTAL THERAPY" is a bonafide and genuine research work carried out by me under the guidance of Dr C. HEMACHANDRA BABU, Professor & HOD, Department of Periodontics and Oral implantology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 26/11/18

Place: NIZAMABAD

  
Signature of the candidate

Dr NARESH KUMAR K



PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

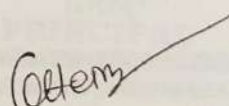
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “EVALUATION OF ERYTHROCYTE COUNT AND HEMOGLOBIN LEVELS IN PATIENTS WITH AGGRESSIVE AND CHRONIC PERIODONTITIS AFTER NON SURGICAL PERIODONTAL THERAPY” is a bonafide research work done by Dr NARESH KUMAR K in partial fulfilment of the requirement for the degree of Master of Dental Surgery in Department of Periodontics and Oral implantology.

Date: 26/11/18  
Place: NIZAMABAD.

  
Signature of the Guide  
Dr C. HEMACHANDRA BABU  
Professor and HOD  
Department of Periodontics

  
PRINCIPAL  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr NARESH KUMAR K** bearing registration no. 16201107005D, pursuing post-graduation from 2016-2019 in the Department Of Periodontics and Oral implantology, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled "**EVALUATION OF ERYTHROCYTE COUNT AND HEMOGLOBIN LEVELS IN PATIENTS WITH AGGRESSIVE AND CHRONIC PERIODONTITIS AFTER NON SURGICAL PERIODONTAL THERAPY**" as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

**Dr C. HEMACHANDRA BABU, MDS**  
Professor & HOD,  
Department of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**PRINCIPAL**  
**Dr MEGH PRATAP KUMAR, MDS**  
Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

**DR. K. NANDA KUMAR, M.D.S**  
Dean & Director of Postgraduate Studies,  
Professor & HOD,  
Department of Conservative dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "CLINICAL EFFICACY OF COENZYME Q10 (PERIO Q GEL) IN DIABETES MELLITUS PATIENTS WITH CHRONIC PERIODONTITIS"



By

**Dr VIVEK A**

Registration no. 16201107004D

Dissertation Submitted to

**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**PERIODONTICS AND ORAL IMPLANTOLOGY**

Meghna Institute of Dental Sciences

Nizamabad, Telangana-503 003

2016-2019

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in


KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA.

## DECLARATION BY THE CANDIDATE

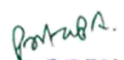
I hereby declare that this dissertation entitled "CLINICAL EFFICACY OF COENZYME Q10 (PERIO Q GEL) IN DIABETES MELLITUS PATIENTS WITH CHRONIC PERIODONTITIS" is a bonafide and genuine research work carried out by me under the guidance of Dr C.HEMACHANDRA BABU, Professor & HOD, Department of Periodontics and Oral implantology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 26/11/18

Place: NIZAMABAD

  
Signature of the candidate

Dr VIVEK A



PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “CLINICAL EFFICACY OF COENZYME Q10 (PERIO Q GEL) IN DIABETES MELLITUS PATIENTS WITH CHRONIC PERIODONTITIS” is a bonafide research work done by Dr VIVEK A in partial fulfilment of the requirement for the degree of Master of Dental Surgery in Department of Periodontics and Oral implantology.

Date: 26/11/18  
Place: NIZAMABAD.

PROFESSOR & HOD  
DEPT. OF PERIODONTICS  
Signature of the Guide  
DR. CHEMACHANDRA BABU  
MALLARAM (V), Nizamabad. (T.S)  
Professor and HOD  
Department of Periodontics

PRINCIPAL  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr VIVEK A bearing registration no. 16201107004D, pursuing post-graduation from 2016-2019 in the Department Of Periodontics and Oral implantology, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled "CLINICAL EFFICACY OF COENZYME Q10 (PERIO Q GEL) IN DIABETES MELLITUS PATIENTS WITH CHRONIC PERIODONTITIS" as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

**Dr C. HEMACHANDRA BABU, MDS**  
Professor & HOD,  
Department of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**Dr M. PRATAP KUMAR, MDS**  
Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

**Dr. K. NANDA KUMAR, M.D.S**  
Dean & Director of post graduate studies  
Professor & HOD,  
Department of Conservative dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad, Telangana

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## "CLINICAL AND RADIOLOGICAL EFFICACY OF SYSTEMICALLY ADMINISTERED ALENDRONATE IN PATIENTS WITH CHRONIC PERIODONTITIS"

- A RANDOMISED, PLACEBO CONTROLLED TRIAL



By  
Dr. JANDHYALA PRATHYUSHA  
Registration no. 17201107005D

Dissertation Submitted to  
KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA

In Partial Fulfilment of the requirements for the degree of  
MASTER OF DENTAL SURGERY

In the specialty of  
PERIODONTICS

Meghna Institute of Dental Sciences  
Nizamabad, Telangana-503 003

2017-2020

*Prathya*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "Clinical and radiological efficacy of systemically administered alendronate in patients with chronic periodontitis- a randomized, placebo-controlled trial" is a bonafide and genuine research work carried out by me under the guidance of Dr. C. HEMACHANDRA BABU, professor and HOD, Department of Periodontics, Meghna Institute of Dental sciences, Nizamabad.

Date: 18-01-2021

Place: NIZAMABAD

Signature of the candidate

(Dr. Jandhyala Prathyusha)

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

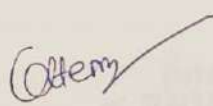
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503 003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "Clinical and radiological efficacy of systemically administered alendronate in patients with chronic periodontitis- a randomized, placebo-controlled trial" is a bonafide research work done by Dr. Jandhyala prathyusha in partial fulfilment of the requirement for the degree of Master of Dental Surgery in Department of Periodontics.

Date: 18-01-2021  
Place: NIZAMABAD

  
Signature of the Guide  
Dr. C. HEMACHANDRA BABU  
Professor and HOD  
Department of Periodontics

PROFESSOR & HOD  
DEPT. OF PERIODONTICS  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)

  
PRINCIPAL  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## CERTIFICATE



This is to certify that **Dr. JANDHYALA PRATHYUSHA** bearing registration No: 17201107005D, pursuing post-graduation from 2017 to 2020 in the **Department of Periodontics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery submitted the dissertation entitled "**CLINICAL AND RADIOLOGICAL EFFICACY OF SYSTEMICALLY ADMINISTERED ALENDRONATE IN PATIENTS WITH CHRONIC PERIODONTITIS- A RANDOMISED, PLACEBO CONTROLLED TRIAL**". This work was done under our personal guidance and supervision

*Cherry*

**Dr. C. HEMACHANDRA BABU, MDS**

**PROFESSOR & HOD**  
**DEPT. OF PERIODONTICS**  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)  
Department of Periodontics  
Meghna institute of dental sciences,

*Pratap*

**PRINCIPAL**  
**DR. M. PRATAP KUMAR, MDS**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.  
Principal,

Meghna institute of dental sciences,  
Nizamabad, Telangana.

*Pratap*

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "ESTIMATION OF SCLEROSTIN LEVELS IN GCF AND SERUM OF HEALTHY AND CHRONIC PERIODONTITIS PATIENTS"

- A CLINICO-BIOCHEMICAL STUDY



By

Dr K.Sowjanya

Registration no. 18201107001D

Dissertation Submitted to

KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA

In Partial Fulfilment of the requirements for the degree of

MASTER OF DENTAL SURGERY

In the speciality of

PERIODONTICS

Meghna Institute of Dental Sciences  
Nizamabad, Telangana-503 003

2018-2021

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "ESTIMATION OF  
SCLEROSTIN LEVELS IN GCF AND SERUM OF HEALTHY INDIVIDUALS  
AND PATIENTS WITH CHRONIC PERIODONTITIS"- A CLINICO-  
BIOCHEMICAL STUDY is a bonafide and genuine research work carried out  
by me under the guidance of, Dr C. HEMACHANDRA BABU, MDS  
Professor & HOD, Department of Periodontics, Meghna Institute of Dental  
Sciences, Nizamabad.

Date: 20-1-2021  
Place: NIZAMABAD

K. Sowjanya.  
Signature of the candidate  
(Dr.K.SOWJANYA)

*Potkura.*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES, NIZAMABAD – 500 003,  
TELANGANA.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled  
“ESTIMATION OF SCLEROSTIN LEVELS IN GCF AND SERUM OF  
HEALTHY INDIVIDUALS AND PATIENTS WITH CHRONIC  
PERIODONTITIS”- A CLINICO-BIOCHEMICAL STUDY is a bonafide  
research work done by Dr K.SOWJANYA in partial fulfilment of the  
requirement for the degree of Master of Dental Surgery in Department of  
Periodontics.

Date: 20/01/2021  
Place: Nizamabad.

Signature of the Guide

(Dr C. HEMACHANDRA BABU, MDS)

PROFESSOR & HOD  
DEPT. OF PERIODONTICS  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"CLINICAL EFFICACY OF 10% SAUSSUREA LAPPA GEL  
AS AN ADJUVANT TO SCALING AND ROOT PLANING  
IN THE TREATMENT OF CHRONIC PERIODONTITIS."**



By

**Dr VIJENDAR BHUKYA**

Registration no. 18201107002D

Dissertation Submitted to

**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial Fulfillment of the requirements for the degree  
of **MASTER OF DENTAL SURGERY**

In the speciality of

**PERIODONTICS AND ORAL IMPLANTOLOGY**

Meghna Institute of Dental Sciences  
Nizamabad, Telangana-503 003

2018-2021

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

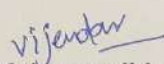
KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA.

## DECLARATION BY THE CANDIDATE

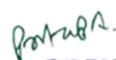
I hereby declare that this dissertation entitled "CLINICAL EFFICACY OF 10% SAUSSUREA LAPPA GEL AS AN ADJUVANT TO SCALING AND ROOT PLANING IN THE TREATMENT OF CHRONIC PERIODONTITIS" is a bonafide and genuine research work carried out by me under the guidance of Dr C.HEMACHANDRA BABU, Professor & HOD, Department of Periodontics and Oral implantology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 25/01/2021

Place: Nizamabad

  
Signature of the candidate

Dr VIJENDAR BHUKYA



PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA.**

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “CLINICAL EFFICACY OF 10% SAUSSUREA LAPPA GEL AS AN ADJUVANT TO SCALING AND ROOT PLANING IN THE TREATMENT OF CHRONIC PERIODONTITIS” is a bonafide research work done by **Dr VIJENDAR BHUKYA** in partial fulfilment of the requirement for the degree of Master of Dental Surgery in Department of Periodontics and Oral implantology.

Date: 25/01/2021  
Place: Nizamabad

Signature of the Guide  
**Dr C.HEMACHANDRA BABU**

Professor and HOD  
Department of Periodontics

**PROFESSOR & HOD**  
**DEPT. OF PERIODONTICS**  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)

*Pratibha*

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



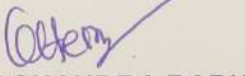
# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that **Dr VIJENDAR BHUKYA** bearing registration no. 18201107002D, pursuing post-graduation from 2018-2021 in the Department Of Periodontics and Oral implantology, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled "**CLINICAL EFFICACY OF 10% SAUSSUREA LAPPA GEL AS AN ADJUVANT TO SCALING AND ROOT PLANING IN THE TREATMENT OF CHRONIC PERIODONTITIS**" as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
**Dr C. HEMACHANDRA BABU, MDS**

Professor & HOD,  
Department of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

**PROFESSOR & HOD**  
**DEPT. OF PERIODONTICS**  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)

  
**Dr M. PRATAP KUMAR, MDS.**

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
**MALLARAM (V), NIZAMABAD.**  
Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana.

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
**MALLARAM (V), NIZAMABAD.**





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## "EFFECT OF SMOKING ON NEUTROPHIL APOPTOSIS IN HEALTHY AND CHRONIC PERIODONTITIS PATIENTS: AN IMMUNOHISTOCHEMICAL STUDY"



By

**Dr.DASARI PRANAVI**

**Registration no. 19201107001D**

**2019-2022**

*Dissertation submitted to*

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA.**

**In Partial Fulfilment of the requirements for the degree of  
MASTER OF DENTAL SURGERY**

**In the speciality of "PERIODONTICS"**

**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD, TELANGANA-503003**

*Pranava*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

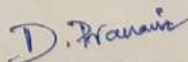
WARANGAL ,TELANGANA

### DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled “ **Effect of smoking on neutrophil apoptosis in healthy and chronic periodontitis patients: an immunohistochemical study**” is a bonafide and genuine research work carried out by me under the guidance of **Dr.C.HEMACHANDRA BABU, professor and HOD Department of Periodontics**, Meghna Institute of Dental Sciences, Nizamabad, Telangana.

Date: 22/11/2021

Place: Nizamabad.

  
Signature of the candidate

Dr.DASARI PRANAVI

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





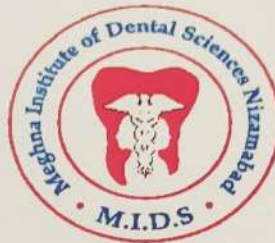
# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## MEGHNA INSTITUTE OF DENTAL SCIENCES, NIZAMABAD – 503003, TELANGANA STATE.

### CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled "**Effect of smoking on neutrophil apoptosis in healthy and chronic periodontitis patients: an immunohistochemical study**" is a bonafide research work done by **Dr.Dasari Pranavi** in partial fulfillment of the requirement for the degree of Master of Dental Surgery in Department of Periodontics.

Date: 22/11/2021  
Place Nizamabad.

Signature of the guide

**Dr.C.HEMACHANDRA BABU M.D.S**

Professor and HOD  
**PROFESSOR & HOD**  
Department of Periodontics  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad (A.P.)

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## CERTIFICATE



This is to certify that **Dr.Dasari Pranavi** bearing registration no: **19201107001D** pursuing post-graduation from **2019-2022** in the Department of Periodontics, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery submitted the Dissertation entitled **"EFFECT OF SMOKING ON NEUTROPHIL APOPTOSIS IN HEALTHY AND CHRONIC PERIODONTITIS PATIENTS: AN IMMUNOHISTOCHEMICAL STUDY"**. This work was done under our personal guidance and supervision.

Dr .C.Hemachandra Babu, M.D.S

Professor & HOD,  
Department Of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.

Dr.M.Pratap Kumar, M.D.S  
Principal & HOD,  
Department of Conservative  
dentistry, and Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**“EVALUATION OF HARD TISSUE ALTERATIONS AFTER IMMEDIATE  
AND DELAYED IMPLANT PLACEMENT”  
- A CLINICO-RADIOLOGICAL STUDY**



By  
**DR.S.VIJAYASHANTHI**  
Registration no: 19201107002D

Dissertation Submitted to  
**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of  
**MASTER OF DENTAL SURGERY**

In the specialty of  
**PERIODONTICS**

Meghna Institute of Dental Sciences  
Nizamabad, Telangana-503 003

2019-2022

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

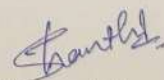
KNR UNIVERSITY OF HEALTH SCIENCES

WARANGAL, TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**EVALUATION OF HARD TISSUE ALTERATIONS AFTER IMMEDIATE AND DELAYED IMPLANT PLACEMENT - A CLINICO- RADIOLOGICAL STUDY**" is a bonafide and genuine research work carried out by me under the guidance of **Dr. VINAY CHAVAN**, Professor, Department of Periodontics, Meghna Institute of Dental sciences, Nizamabad.

Date: 18/11/21  
Place: Nizamabad

  
Signature of the candidate  
(DR.S.VIJAYASHANTHI)

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

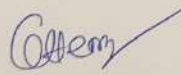
(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## CERTIFICATE




This is to certify that **DR.S.VIJAYASHANTHI** bearing registration No:19201107002D, pursuing post-graduation from 2019 to 2022 in the **Department of Periodontics**, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery submitted the dissertation entitled "**EVALUATION OF HARD TISSUE ALTERATIONS AFTER IMMEDIATE AND DELAYED IMPLANT PLACEMENT**"- A CLINICO-RADIOLOGICAL STUDY. This work was done under our personal guidance and supervision.

  
**DR. C. HEMACHANDRA BABU,**  
**M.D.S**

Professor & HOD

**PROFESSOR & HOD**  
**Department of Periodontics**  
**Meghna Institute of Dental Sciences**  
**Mallaram (V), Nizamabad (A.P.)**

Nizamabad,  
Telangana.

  
**DR. M. PRATAP KUMAR, M.D.S.**

**PRINCIPAL**  
**Meghna Institute of Dental Sciences**  
**MALLARAM (V), NIZAMABAD.**

Dentistry & Endodontics.

Meghna Institute of Dental Sciences  
Nizamabad,  
Telangana.

  
**PRINCIPAL**  
**Meghna Institute of Dental Sciences**  
**MALLARAM (V), NIZAMABAD.**



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES

NIZAMABAD - 503 003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "EVALUATION OF HARD TISSUE ALTERATIONS AFTER IMMEDIATE AND DELAYED IMPLANT PLACEMENT"- A CLINICO-RADIOLOGICAL STUDY is a bonafide research work done by DR.S.VIJAYASHANTHI in partial fulfilment of the requirement for the degree of Master of Dental Surgery in Department of Periodontics.

Date: 18/11/21  
Place: Nizamabad

Signature of the Guide

**DR. VINAY CHAVAN, M.D.S**

Professor

Department of Periodontics

Meghna institute of dental  
sciences,

Nizamabad, Telangana

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"ESTIMATION OF MUCIN 4 LEVELS IN SALIVA AND  
GINGIVAL CREVICULAR FLUID OF HEALTHY  
INDIVIDUALS AND CHRONIC PERIODONTITIS PATIENTS"  
-A CLINICO-BIOCHEMICAL STUDY**



By

**DR. MK YOUNUSUDDIN**

**Registration no. 19201107003D**

**2019-2022**

*Dissertation submitted to*

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA.**

**In Partial Fulfilment of the requirements for the degree of  
MASTER OF DENTAL SURGERY**

**In the speciality of "PERIODONTICS"  
MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD, TELANGANA-503003**

**2019-2022**

*Potkura.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES

WARANGAL ,TELANGANA.

### DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled “**ESTIMATION OF MUCIN 4 LEVELS IN SALIVA AND GINGIVAL CREVICULAR FLUID OF HEALTHY INDIVIDUALS AND CHRONIC PERIODONTITIS PATIENTS**” -A CLINICO-BIOCHEMICAL STUDY is a bonafide and genuine research work carried out by me under the guidance of **Dr.C.HEMACHANDRA BABU, MDS professor and HOD, Department of Periodontics, Meghna Institute of Dental Sciences, Nizamabad, Telangana.**

Date: 23-12-2021

Place: Nizamabad.

Signature of the candidate

(DR. MK YOUNUSUDDIN)

*Prasanna*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503003, TELANGANA STATE.

CERTIFICATE BY THE GUIDE



This is to certify that the dissertation entitled “ESTIMATION OF MUCIN 4 LEVELS IN SALIVA AND GINGIVAL CREVICULAR FLUID OF HEALTHY INDIVIDUALS AND CHRONIC PERIODONTITIS PATIENTS” -A CLINICO-BIOCHEMICAL STUDY is a bonafide research work done by DR. MK YOUNUSUDDIN in partial fulfillment of the requirement for the degree of Master of Dental Surgery in Department of Periodontics.

Date: 28/12/21.  
Place: Nizamabad.

Signature of the guide

Dr.C.HEMACHANDRA BABU MDS

Professor and HOD

Department of Periodontics.

PROFESSOR & HOD  
DEPT. OF PERIODONTICS  
Meghna Institute of Dental Sciences  
Mallaram (V), Nizamabad. (A.P.)

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

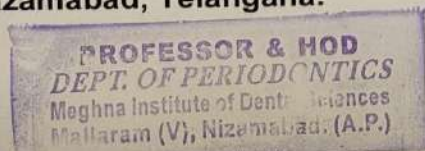
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## CERTIFICATE



This is to certify that Dr.M.K.YOUNUSUDDIN bearing registration no: 19201107003D, pursuing post-graduation from 2019-2022 in the Department of Periodontics, Meghna Institute of Dental Sciences, Nizamabad, as a requirement for the Degree of Master of Dental Surgery. Submitted the Dissertation entitled "ESTIMATION OF MUCIN 4 LEVELS IN SALIVA AND GINGIVAL CREVICULAR FLUID OF HEALTHY INDIVIDUALS AND CHRONIC PERIODONTITIS PATIENTS" -A CLINICO-BIOCHEMICAL STUDY. This work was done under our personal guidance and supervision.

Dr .C.Hemachandra Babu, MDS  
Professor & HOD,  
Department Of Periodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana.



Dr.M.Pratap Kumar, MDS  
Principal & HOD,  
Department of Conservative  
Dentistry, and Endodontics,  
Meghna Institute of Dental  
Sciences Nizamabad, Telangana.  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"COMPARATIVE EVALUATION OF FLEXURAL STRENGTH  
AND IMPACT STRENGTH, OF POLYMETHYL METHACRYLATE  
(PMMA) RESIN WITH & WITHOUT REINFORCEMENT OF  
GLASS FIBRE AND METAL"- AN INVITRO STUDY**



By

**Dr. MOHD JALALUDDIN RASHEED**

*Dissertation Submitted to*

**Dr. N.T.R. UNIVERSITY OF HEALTH SCIENCES,**

*Vijayawada, Andhra Pradesh*

*In Partial Fulfilment of the requirements for the degree of*

**MASTER OF DENTAL SURGERY**

*In the speciality of*

**PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY**

**Meghna Institute of Dental Sciences**

**Nizamabad-503 003**

**Telangana state**

**2014-2017**

I

*Potkura.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : [info@meghnadentalcollege.ac.in](mailto:info@meghnadentalcollege.ac.in) Webbsite : [www.meghnadentalcollege.ac.in](http://www.meghnadentalcollege.ac.in)

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "COMPARATIVE EVALUATION OF FLEXURAL STRENGTH AND IMPACT STRENGTH, OF POLYMETHYL METHACRYLATE (PMMA) RESIN WITH & WITHOUT REINFORCEMENT OF GLASS FIBRE AND METAL"- *AN INVITRO STUDY* is a bonafide and genuine research work carried out by me under the guidance of **Dr. M. MALLIKARJUN**, Professor and Head of the Department, Department of Prosthodontics, Crown & Bridge and Implantolgy, Meghna Institute of Dental Sciences, Nizamabad,

Date:

Signature of the candidate

Place:

(Dr. MOHD JALALUDDIN RASHEED)





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. MOHD JALALUDDIN RASHEED pursuing post-graduation from 2014-2017 in the Department Of Prosthodontics, Crown & Bridge & Implantology, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled "COMPARATIVE EVALUATION OF FLEXURAL STRENGTH AND IMPACT STRENGTH, OF POLYMETHYL METHACRYLATE (PMMA) RESIN WITH & WITHOUT REINFORCEMENT OF GLASS FIBRE AND METAL"- AN INVITRO STUDY as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

**Dr. M. MALLIKARJUN M.D.S**  
Professor & HOD,  
Department of Prosthodontics, Crown  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana state.

**Dr. M. PRATAP KUMAR M.D.S**  
Principal, Professor and HOD,  
Department of Conservartive  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana state.

**Dr. K. NANDA KUMAR M.D.S**  
Dean & Director of Post Graduate Studies,  
Professor & HOD,  
Department of Conservative Dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad. Telangana state.

Date:

Place:

IV

*Pratapa*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.**

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**COMPARATIVE EVALUATION OF FLEXURAL STRENGTH AND IMPACT STRENGTH, OF POLYMETHYL METHACRYLATE (PMMA) RESIN WITH & WITHOUT REINFORCEMENT OF GLASS FIBRE AND METAL**”- *AN INVITRO STUDY* is a bonafide research work done by **Dr. MOHD JALALUDDIN RASHEED** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Prosthodontics, Crown & Bridge and Implantology

Date:

Signature of the Guide

Place:

**Dr. M. MALLIKARJUN**

Professor and HOD

Department Of Prosthodontics

Crown & Bridge and Implantology

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"COMPARATIVE EVALUATION OF ACCURACY OF NEWLY  
FORMULATED VINYLSILOXANE ETHER ELASTOMERIC IMPRESSION  
MATERIAL WITH POLYETHER AND POLYVINYLSILOXANE IMPRESSION  
SYSTEMS" - AN INVITRO STUDY**



By

**Dr. S.SAI KRISHNA**

*Dissertation Submitted to the  
Dr. N.T.R. University of Health Sciences,  
Vijayawada, Andhra Pradesh*

*In Partial Fulfilment of the requirements for the degree of*

**MASTER OF DENTAL SURGERY**

*In the speciality of*

**PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY**

**MEGHNA INSTITUTE OF DENTAL SCIENCES**

**NIZAMABAD**

**TELANGANA - 503 003**

**2014-2017**

I

*Potkura.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation entitled  
***"COMPARATIVE EVALUATION OF ACCURACY OF NEWLY FORMULATED  
VINYLSILOXANE ETHER ELASTOMERIC IMPRESSION MATERIAL WITH  
POLYETHER AND POLYVINYLSILOXANE IMPRESSION SYSTEMS" - AN  
INVITRO STUDY*** is a bonafide and genuine research work carried out by me under the  
guidance of **Dr. M. MALLIKARJUN**, Professor and Head of the Department,  
Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of  
Dental Sciences, Nizamabad.

Date: 13/12/2016

Place: Nizamabad

S. Sai Krishna

Signature of the candidate

Dr. S.SAI KRISHNA

Pratibha.

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD, TELANGANA- 500 003



## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled  
*"COMPARATIVE EVALUATION OF ACCURACY OF NEWLY FORMULATED  
VINYLSILOXAN ETHER ELASTOMERIC IMPRESSION MATERIAL WITH  
POLYETHER AND POLYVINYLSILOXANE IMPRESSION SYSTEMS" - AN  
INVITRO STUDY* is a bonafide research work done by **Dr. S.SAI KRISHNA** in partial  
fulfilment of the requirement for the degree of **Master of Dental Surgery** in  
Department of Prosthodontics, Crown & Bridge and Implantology.

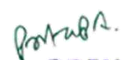
Date: 13/12/2016

Place: Nizamabad

  
Signature of the Guide

**Dr. A. Kalyan chakravarthy M.D.S**  
Reader, Department Of Prosthodontics  
Crown & Bridge and Implantology.

**READER**  
Dept. of Prosthodontics  
MIDS-NIZAMABAD.



**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate




This is to certify that the dissertation entitled "*COMPARATIVE EVALUATION OF ACCURACY OF NEWLY FORMULATED VINYL SILOXANE ETHER ELASTOMERIC IMPRESSION MATERIAL WITH POLYETHER AND POLYVINYL SILOXANE IMPRESSION SYSTEMS*"- AN INVITRO STUDY is a bonafide research work carried out by **Dr. S. SAI KRISHNA**, under the guidance of **Dr. M. MALLIKARJUN**, Professor and Head of the Department, Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad.

  
**Dr. M. Mallikarjun, M.D.S**  
Professor & HOD,  
Department of Prosthodontics, Crown &  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

  
**Dr. M. Prathap Kumar, M.D.S**  
Principal, Professor  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V) NIZAMABAD

  
**Dr. K. Nanda Kumar, M.D.S**  
Dean & Director of post graduate studies,  
Professor & HOD,  
Department of Conservative & Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

Date: 13/12/2016

place: Nizamabad





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "EFFECT OF ZIRCONIA ADDITION ON THE FLEXURAL STRENGTH AND IMPACT STRENGTH OF HIGH STRENGTH POLYMETHYL METHACRYLATE RESIN." AN IN VITRO STUDY

By

**Dr. NAZISH FATIMA**

*Dissertation Submitted to*

**Dr. N.T.R. UNIVERSITY OF HEALTH SCIENCES,**  
**Vijayawada, Andhra Pradesh**



*In Partial Fulfilment of the requirements for the degree of*  
**MASTER OF DENTAL SURGERY**

*In the speciality of*

**PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY**

**Meghna Institute of Dental Sciences**

**Nizamabad-503 003**

**Telangana state**

**2015-2018**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

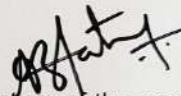
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**EFFECT OF ZIRCONIA ADDITION ON THE FLEXURAL STRENGTH AND IMPACT STRENGTH OF HIGH STRENGTH POLYMETHYL METHACRYLATE RESIN**" *AN IN VITRO STUDY* is a bonafide and genuine research work carried out by me under the guidance of **Dr. A. KALYAN CHAKRAVARTHY MDS** Professor and Guide, Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad,

Date: **7-12-17**

Place: NIZAMABAD

  
Signature of the candidate  
(Dr. NAZISH FATIMA)





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

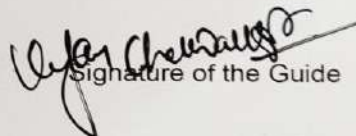
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 5002003, TELANGANA STATE.**

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “EFFECT OF ZIRCONIA ADDITION ON THE FLEXURAL STRENGTH AND IMPACT STRENGTH OF HIGH STRENGTH POLYMETHYL METHACRYLATE RESIN” - AN INVITRO STUDY is a bonafide research work done by Dr. NAZISH FATIMA in partial fulfilment of the requirement for the degree of Master of Dental Surgery in Department of Prosthodontics, Crown & Bridge and Implantology

Date: 7-12-17  
Place: NIZAMABAD

  
Signature of the Guide

**Dr A. KALYAN CHAKRAVARTHY**  
Professor and Guide  
Department Of Prosthodontics  
Crown & Bridge and Implantology



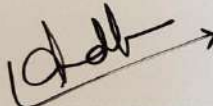
# MEGHNA INSTITUTE OF DENTAL SCIENCES

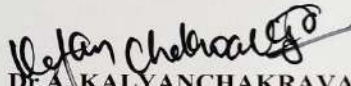
(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in


## Certificate

This is to certify that **Dr. NAZISH FATIMA** bearing registration no – D159605076 pursuing post-graduation from 2015-2018 in the **Department Of Prosthodontics, Crown & Bridge & Implantology**, Meghna Institute Of Dental Sciences, Nizamabad, as submitted the dissertation entitled **“EFFECT OF ZIRCONIA ADDITION ON THE FLEXURAL STRENGTH AND IMPACT STRENGTH OF HIGH STRENGTH POLYMETHYL METHACRYLATE RESIN”- AN INVITRO STUDY** as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
**Dr. N. V. VASUDHA**  
Professor & HOD,  
Department of Prosthodontics, Crown &  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

  
**Dr. A. KALYANCHAKRAVARTHY**  
Professor & Guide,  
Department of Prosthodontics, Crown  
& Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

  
**Dr. K. NANDA KUMAR M.D.S**  
Dean & Director of Post Graduate Studies,  
Professor & HOD,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana state.

  
**Dr. M. PRATAP KUMAR M.D.S.**  
Principal, Professor and HOD,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"COMPARATIVE EVALUATION OF REPAIR STRENGTH OF  
DIFFERENT JOINT SURFACES OF ACRYLIC RESINS AFTER  
VARIOUS SURFACE TREATMENTS"-AN INVITRO STUDY**



By

**Dr. NAVEEN KUMAR.G**

Dissertation Submitted to  
**Dr. N.T.R. UNIVERSITY OF HEALTH SCIENCES,**  
Vijayawada, Andhra Pradesh

In Partial Fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY**

Meghna Institute of Dental Sciences  
Nizamabad-503 003  
Telangana state  
**2015-2018**

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled  
**COMPARATIVE EVALUATION OF REPAIR STRENGTH OF DIFFERENT  
JOINT SURFACES OF ACRYLIC RESINS AFTER VARIOUS SURFACE  
TREATMENTS"- AN INVITRO STUDY** is a bonafide and genuine research  
work carried out by me under the guidance of **Dr.VASUDHA.N.V.**, Professor  
and Head of the Department, Department of Prosthodontics, Crown & Bridge  
and Implantology, Meghna Institute of Dental Sciences, Nizamabad,

Date: 6/12/2017

  
Signature of the candidate

Place: NZB

(Dr. NAVEEN KUMAR.G)

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled  
“COMPARATIVE EVALUATION OF REPAIR STRENGTH OF DIFFERENT  
JOINT SURFACES OF ACRYLIC RESINS AFTER VARIOUS SURFACE  
TREATMENTS”-AN INVITRO STUDY is a bonafide research work done by  
Dr. NAVEEN KUMAR.G in partial fulfilment of the requirement for the degree  
of Master of Dental Surgery in Department of Prosthodontics, Crown &  
Bridge and Implantology

Date: 6/12/2017

Place: N2B

Signature of the Guide

Dr. VASUDHA.N.V

Professor and HOD

Department Of Prosthodontics  
Crown & Bridge and Implantology

*Potkura*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



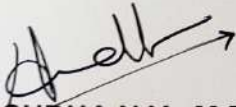
# MEGHNA INSTITUTE OF DENTAL SCIENCES

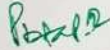
(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. NAVEEN KUMAR.G bearing registration no.: D159605075 pursuing post-graduation from 2015-2018 in the Department Of Prosthodontics, Crown & Bridge & Implantology, Meghna Institute Of Dental Sciences, Nizamabad, as submitted the dissertation entitled "COMPARATIVE EVALUATION OF REPAIR STRENGTH OF DIFFERENT JOINT SURFACES OF ACRYLIC RESINS AFTER VARIOUS SURFACE TREATMENTS"-AN INVITRO STUDY as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
**Dr. VASUDHA.N.V., M.D.S**  
Professor & HOD,  
Department of Prosthodontics, Crown &  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

  
**Dr. M. PRATAP KUMAR M.D.S.**  
Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad. Telangana State.

  
**Dr. K. Nanda Kumar M.D.S**  
Dean & Director of post graduate studies,  
Professor & HOD,  
Department of Conservative dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad. Telangana State

Date:

Place:

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "COMPARISON OF THE TRANSVERSE STRENGTH OF THREE DIFFERENT INJECTION MOULDING DENTURE BASE MATERIALS"

- AN INVITRO STUDY



By

**Dr. K.SAIKRISHNA**

Dissertation Submitted to  
**Dr. N.T.R. UNIVERSITY OF HEALTH SCIENCES,**  
Vijayawada, Andhra Pradesh

In Partial Fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of  
**PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY**

**Meghna Institute of Dental Sciences**  
**Nizamabad-503 003**  
**Telangana state**  
**2015-2018**

*Potkura*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

Dr. NTR UNIVERSITY OF HEALTH SCIENCES, VIJAYAWADA,  
ANDHRA PRADESH.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**COMPARISON OF THE TRANSVERSE STRENGTH OF THREE DIFFERENT INJECTION MOULDING DENTURE BASE MATERIALS**"- *AN INVITRO STUDY* is a bonafide and genuine research work carried out by me under the guidance of **Dr. Vasudha.N.V**, Professor and Head of the Department, Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad,

Date: 6/12/2017

  
Signature of the candidate

Place: N2B

(Dr.K.SAIKRISHNA)

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

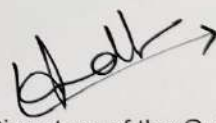
**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.**

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**COMPARISION OF THE TRANSVERSE STRENGTH OF THREE DIFFERENT INJECTION MOULDING DENTURE BASE MATERIALS**”- *AN INVITRO STUDY* is a bonafide research work done by **Dr. K.SAIKRISHNA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Prosthodontics, Crown & Bridge and Implantolgy

Date: 6/12/2017

Place: N2B

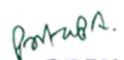
  
Signature of the Guide

**Dr.VASUDHA .N.V**

Professor and HOD

Department Of Prosthodontics

Crown & Bridge and Implantology



**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



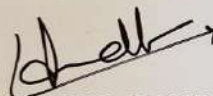
# MEGHNA INSTITUTE OF DENTAL SCIENCES

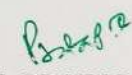
(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. **K.SAIKRISHNA** bearing registration no: D159605077 pursuing post-graduation from 2015-2018 in the **Department Of Prosthodontics, Crown & Bridge & Implantology**, Meghna Institute Of Dental Sciences, Nizamabad, as submitted the dissertation entitled **"COMPARISION OF THE TRANSVERSE STRENGTH OF THREE DIFFERENT INJECTION MOULDING DENTURE BASE MATERIALS"- AN INVITRO STUDY** as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
**Dr. VASUDHA .N.V M.D.S**  
Professor & HOD,  
Department of Prosthodontics, Crown &  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

  
**Dr. M. PRATAP KUMAR M.D.S.**  
Principal, Professor,  
Department of Conservartive  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad. Telangana State.

  
**Dr. K. NANDA KUMAR M.D.S**  
Dean & Director of post graduate studies,  
Professor & HOD,  
Department of Conservative dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad. Telangana State.

Date: 7/12/2017

Place: N2B

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"EVALUATION OF BIOLOGICAL CHANGES IN PROXIMAL  
CONTACTS BETWEEN FIXED IMPLANT PROSTHESIS AND  
ADJACENT TEETH" - AN INVIVO STUDY**



By

**Dr. K.MARIA ROSEME**

Registration no.: D16203107011

Dissertation Submitted to

**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY**



**Meghna Institute of Dental Sciences**

**Nizamabad-503 003**

**Telangana state**

**2016-2019**

*Principals*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**EVALUATION OF BIOLOGICAL CHANGES IN PROXIMAL CONTACTS BETWEEN FIXED IMPLANT PROSTHESIS AND ADJACENT TEETH**"-AN *INVIVO* STUDY. is a bonafide and genuine research work carried out by me under the guidance of **Dr. A KALYAN CHAKRAVARTHY**<sub>M.D.S.</sub>, Professor and Head of the Department, Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad,

Date: 13-11-2018

  
Signature of the candidate

Place: Nizamabad

(Dr. K MARIA ROSEME)

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

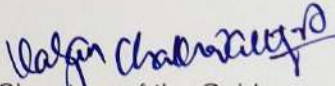
Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**EVALUATION OF BIOLOGICAL CHANGES IN PROXIMAL CONTACTS BETWEEN FIXED IMPLANT PROSTHESIS AND ADJACENT TEETH**”-AN *INVIVO STUDY* is a bonafide research work done by **Dr. K MARIA ROSEME** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Prosthodontics, Crown & Bridge and Implantology

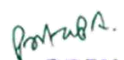
Date: 13/11/18

  
Signature of the Guide

Place: Nizamabad

**Dr. A KALYAN CHAKRAVARTHY**<sup>M.D.S.</sup>,  
Vice Principal, Professor and HOD,  
Department of Prosthodontics  
Crown & Bridge and Implantology

**PROFESSOR & HOD**  
Department of Prosthodontics  
**MIDS NIZAMABAD**



**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. K MARIA ROSEME bearing registration no.: D16203107011 pursuing post-graduation from 2016-2019 in the Department Of Prosthodontics, Crown & Bridge & Implantology, Meghna Institute Of Dental Sciences, Nizamabad, as submitted the dissertation entitled "EVALUATION OF BIOLOGICAL CHANGES IN PROXIMAL CONTACTS BETWEEN FIXED IMPLANT PROSTHESIS AND ADJACENT TEETH"-AN INVIVO STUDY as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

*Dejan Chakravathy*  
Dr. A KALYAN CHAKRAVARTHY., M.D.S  
Vice Principal, Professor & HOD,  
Department of Prosthodontics, Crown &  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

**PROFESSOR & HOD**  
Department of Prosthodontics  
**MIDS NIZAMABAD**

*Pratap*  
**PRINCIPAL**  
Dr. M. PRATAP KUMAR, M.D.S.  
Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana State.

*K. Nanda*  
**DR. K. NANDA KUMAR**  
**DR. K. NANDA KUMAR, M.D.S.**  
Dean & Director of post graduate studies,  
Professor & HOD,  
Department of Conservative dentistry & Endodontics,  
Meghna Institute of Dental Sciences, Nizamabad. Telangana State

Date: 13/11/18

Place: Nizamabad

*Pratap*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"COMPARATIVE EVALUATION OF EFFECT OF PLATELET-  
RICH PLASMA ON CRESTAL BONE LEVEL AROUND  
IMMEDIATELY LOADED DENTAL IMPLANTS"  
- AN INVIVO STUDY**



By

**Dr . SANTOSH KUMAR . M**  
**Reg.no- D16203107012**

Dissertation Submitted to  
**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH  
SCIENCES,**  
**WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of  
**MASTER OF DENTAL SURGERY**

In the speciality of  
**PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY**



**Meghna Institute of Dental Sciences**  
**Nizamabad-503003**  
**Telangana state**  
**2016-2019**

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

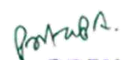
I hereby declare that this dissertation entitled "COMPARATIVE EVALUATION OF EFFECT OF PLATELETRICH PLASMA ON CRESTAL BONE LEVEL AROUND IMMEDIATELY LOADED DENTAL IMPLANTS"-  
*AN INVIVO STUDY* is a bonafide and genuine research work carried out by me under the guidance of Dr. A.KALYAN CHAKRAVARTHY, M.D.S., Professor and Head of the Department, Department of Prosthodontics, Crown and Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 15-11-2018

  
Signature of the candidate

(Dr.SANTOSH KUMAR.M)

Place: Nizamabad



PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE


This is to certify that the dissertation entitled “COMPARATIVE  
EVALUATION OF EFFECT OF PLATELETRICH PLASMA ON CRESTAL  
BONE LEVEL AROUND IMMEDIATELY LOADED DENTAL IMPLANTS”-

*AN INVIVO STUDY* is a bonafide research work done by

Dr.SANTOSH KUMAR.M in partial fulfilment of the requirement for the  
degree of **Master of Dental Surgery** in Department of Prosthodontics, Crown  
& Bridge and Implantology

Date:

Place:

  
**READER**  
Dept. of Prosthodontics  
MDS-NIZAMABAD.

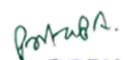
Signature of the Guide

**Dr.B.VEERENDRA PRASAD., M.D.S**

**READER,**

Department Of Prosthodontics

Crown & Bridge and Implantology.



**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456


E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

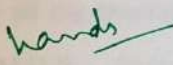
This is to certify that Dr.SANTOSH KUMAR.M bearing Registration no.: D16203107012 pursuing post-graduation from 2016-2019 in the Department Of Prosthodontics, Crown & Bridge & Implantology, Meghna Institute Of Dental Sciences, Nizamabad, has submitted the dissertation entitled "COMPARATIVE EVALUATION OF EFFECT OF PLATELETRICH PLASMA ON CRESTAL BONE LEVEL AROUND IMMEDIATELY LOADED DENTAL IMPLANTS"- AN INVIVO STUDY as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
**Dr. A KALYAN CHAKRAVARTHY.,**  
**M.D.S**

Vice Principal, Professor & HOD,  
Department of Prosthodontics, Crown &  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

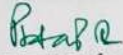
  
**Dr.B.VEERENDRA PRASAD,**  
**M.D.S, READER**

Department Of Prosthodontics,  
Crown & Bridge and Implantology  
Meghna Institute Of Dental Sciences,  
Nizamabad, Telangana state.

  
**Dr.K.NANDA KUMAR., M.D.S**  
Dean & Director of post graduate studies,  
Professor & HOD,  
Department of Conservative  
Dentistry & Endodontics  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana State.

**Dr. K. NANDA KUMAR**  
**DEAN.**

Meghna Institute of Dental Science  
Mallaram (V), Nizamabad

  
**Dr. M. PRATAP KUMAR.,**  
**M.D.S.**

Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad. Telangana State.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
**MALLARAM (V), NIZAMABAD.**  
Place:

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## "COMPARATIVE EVALUATION OF BONE CHANGES AFTER IMPLANT PLACEMENT AND LOADING WITH AND WITHOUT FLAP ELEVATION"

- AN INVIVO STUDY



By

Dr. M.NIHARIKA

REG NO - 17203107009D

Dissertation submitted to the  
KALOJI NARAYANA RAO UNIVERSITY OF HEALTH  
SCIENCES,

Warangal, Telangana

In partial fulfilment of the requirements for the degree of

MASTER OF DENTAL SURGERY

In the speciality of

PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY



MEGHNA INSTITUTE OF DENTAL SCIENCES

NIZAMABAD-503 003

TELANGANA STATE

2017-2020

*Pratibha*

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "COMPARATIVE EVALUATION OF BONE CHANGES AFTER IMPLANT PLACEMENT AND LOADING WITH AND WITHOUT FLAP ELEVATION" - AN INVIVO STUDY is a bonafide and genuine research work carried out by me under the guidance of Dr. A. KALYAN CHAKRAVARTHY, M.D.S., Professor and Head of the Department, Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad.

Date:

Place:

Signature of the candidate

(Dr.M.NIHARIKA)

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503003, TELANGANA STATE.**

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "**COMPARATIVE EVALUATION OF BONE CHANGES AFTER IMPLANT PLACEMENT AND LOADING WITH AND WITHOUT FLAP ELEVATION**" - AN INVIVO STUDY is a bonafide research work done by **Dr. M.NIHARIKA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Prosthodontics, Crown & Bridge and Implantology.

Date:

Place:

  
Signature of the Guide

**Dr. A. KALYAN CHAKRAVARTHY.,M.D.S**

Vice Principal, Professor and HOD,

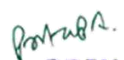
Department of Prosthodontics,

Crown & Bridge and Implantology

**PROFESSOR & HOD**

Department of Prosthodontics

**MIDS NIZAMABAD**



**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD




# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. M.NIHARIKA bearing Registration No. : 17203107009D pursuing post-graduation from 2017-2020 in the Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad, has submitted the dissertation entitled "COMPARATIVE EVALUATION OF BONE CHANGES AFTER IMPLANT PLACEMENT AND LOADING WITH AND WITHOUT FLAP ELEVATION" -AN INVIVO STUDY as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
Dr. A.KALYAN CHAKRAVARTHY.,M.D.S  
Vice Principal, Professor, HOD & Guide,  
Department of Prosthodontics, Crown &  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

**PROFESSOR & HOD**  
Department of Prosthodontics  
MIDS NIZAMABAD

  
Dr. M. PRATAP KUMAR., M.D.S.  
Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana State.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

Date:

Place:

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**" COMPARATIVE EVALUATION OF RETENTION AND  
RESISTANCE BETWEEN SINGLE AND TWO IMPLANT  
RETAINED MANDIBULAR OVERDENTURE USING BALL  
ATTACHMENTS"**

*– AN INVIVO STUDY*



By

**Dr. P. NISHITHA**

**REG NO - 17203107008D**

Dissertation submitted to the  
**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES,**  
**Warangal, Telangana**

In partial fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY**



**MEGHNA INSTITUTE OF DENTAL SCIENCES**

**NIZAMABAD-503 003**

**TELANGANA STATE**

**2017-2020**

I

*P. Nishitha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA STATE.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**COMPARATIVE EVALUATION OF RETENTION AND RESISTANCE BETWEEN SINGLE AND TWO IMPLANT RETAINED MANDIBULAR OVERDENTURE USING BALL ATTACHMENTS**" – *AN INVIVO STUDY* is a bonafide and genuine research work carried out by me under the guidance of **Dr. A. KALYAN CHAKRAVARTHY ,M.D.S.**, Professor and Head of the Department, Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 21/12/19

Place: Nizamabad

P. Nishitha  
Signature of the candidate

(Dr.P.NISHITHA)





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**COMPARATIVE EVALUATION OF RETENTION AND RESISTANCE BETWEEN SINGLE AND TWO IMPLANT RETAINED MANDIBULAR OVERDENTURE USING BALL ATTACHMENTS**”– *AN INVIVO STUDY* is a bonafide research work done by **Dr. P. NISHITHA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Prosthodontics, Crown & Bridge and Implantology.

Date: 21/12/19  
Place: Nizamabad

Signature of the Guide **READER**  
Dept. of Prosthodontics  
MIDS-NIZAMABAD.  
**Dr. B. VEERENDRA PRASAD.,M.D.S.**  
**READER,**  
Department of Prosthodontics,  
Crown & Bridge and Implantology



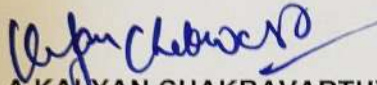
# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webdsite : www.meghnadentalcollege.ac.in


## Certificate

This is to certify that Dr. P. NISHITHA bearing Registration No. 17203107008D pursuing post-graduation from 2017-2020 in the Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad, has submitted the dissertation entitled "COMPARATIVE EVALUATION OF RETENTION AND RESISTANCE BETWEEN SINGLE AND TWO IMPLANT RETAINED MANDIBULAR OVERDENTURE USING BALL ATTACHMENTS"— AN INVIVO STUDY" as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
Dr. A. KALYAN CHAKRAVARTHY.,  
M.D.S  
Vice Principal, Professor, HOD  
Department of Prosthodontics, Crown &  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

  
Dr. B. VEERENDRA PRASAD.,  
M.D.S, READER  
Department of Prosthodontics, crown &  
Bridge and Implantology  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana State.

PROFESSOR & HOD  
Department of Prosthodontics  
MIDS NIZAMABAD

  
Dr. M. PRATAP KUMAR, M.D.S  
Principal & Professor  
Department of Conservative Dentistry & Endodontics  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana State

PRINCIPAL  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

Date: 21/12/19

Place: NIZB





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"COMPARATIVE EVALUATION OF SHEAR BOND  
STRENGTH BETWEEN ZIRCONIA AND RESIN AFTER  
SURFACE TREATMENT WITH DIFFERENT PHOSPHATE  
BASED BONDING AGENTS"AN INVITRO STUDY"  
-AN INVITRO STUDY**



By

**Dr. L.SATYA SRI**

**REG NO – D17203107010**

Dissertation submitted to the  
**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES,**  
Warangal, Telangana

In partial fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**PROSTHODONTICS, CROWN & BRIDGE AND IMPLANTOLOGY**



**MEGHNA INSTITUTE OF DENTAL SCIENCES**

**NIZAMABAD-503 003**

**TELANGANA STATE**

**2017-2020**

I

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA STATE.

## DECLARATION BY THE CANDIDATE

I here by declare that this dissertation entitled "**COMPARATIVE EVALUATION OF SHEAR BOND STRENGTH BETWEEN ZIRCONIA AND RESIN AFTER SURFACE TREATMENT WITH DIFFERENT PHOSPHATE BASED BONDING AGENTS**"AN INVITRO STUDY is a bonafide and genuine research work carried out by me under the guidance of **Dr. A. KALYAN CHAKRAVARTHY, M.D.S.**, Professor and Head of the Department, Department of Prosthodontics, Crown & Bridge and Implantology, Meghna Institute of Dental Sciences, Nizamabad.

Date:

Place:

Signature of the candidate

(Dr. L.SATYASRI)

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**COMPARATIVE EVALUATION OF SHEAR BOND STRENGTH BETWEEN ZIRCONIA AND RESIN AFTER SURFACE TREATMENT WITH DIFFERENT PHOSPHATE BASED BONDING AGENTS**”AN INVITRO STUDY is a bonafide research work done by **Dr. L.SATYA SRI** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Prosthodontics, Crown & Bridge and Implantology.

Date:

Place:

Signature of the Guide

**Dr. A. KALYAN CHAKRAVARTHY.,M.D.S.**

Vice Principal, Professor and HOD,

Department of Prosthodontics,

Crown & Bridge and Implantology

**PROFESSOR & HOD**

Department of Prosthodontics

**MIDS NIZAMABAD**

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

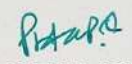
## Certificate

This is to certify that **Dr. L.SATYA SRI** bearing **Registration No. D17203107010** pursuing post-graduation from **2017-2020** in the **Department of Prosthodontics, Crown & Bridge and Implantology**, Meghna Institute of Dental Sciences, Nizamabad, has submitted the dissertation entitled **"COMPARATIVE EVALUATION OF SHEAR BOND STRENGTH BETWEEN ZIRCONIA AND RESIN AFTER SURFACE TREATMENT WITH DIFFERENT PHOSPHATE BASED BONDING AGENTS"AN INVITRO STUDY** as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
**Dr. A.KALYAN CHAKRAVARTHY.,M.D.S.**

Vice Principal, Professor, HOD & Guide,  
Department of Prosthodontics, Crown &  
Bridge and Implantology,  
Meghna Institute of Dental Sciences,  
Nizamabad, Telangana State.

**PROFESSOR & HOD**  
Department of Prosthodontics  
**MIDS NIZAMABAD**

  
**Dr. M. PRATAP KUMAR., M.D.S.**

Principal & Professor,  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad, Telangana State.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD

Date:

Place:





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**"COMPARATIVE EVALUATION OF SHEAR BOND STRENGTH OF  
ACRYLIC TEETH WITH HEAT POLYMERIZED ACRYLIC RESINS  
USING DIFFERENT SURFACE TREATMENTS AND CURING CYCLES"**

**—AN INVITRO STUDY**



By

**Dr. K.S.AMULYA**

Registration no.: 18203107001D

Dissertation Submitted to the

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORAL AND MAXILLOFACIAL PROSTHODONTICS & IMPLANTOLOGY**



**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD-503 003, TELANGANA STATE  
2018-2021**

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES WARANGAL, TELANGANA

### DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation entitled "**COMPARATIVE EVALUATION OF SHEAR BOND STRENGTH OF ACRYLIC TEETH WITH HEAT POLYMERIZED ACRYLIC RESINS USING DIFFERENT SURFACE TREATMENTS AND CURING CYCLES**" -AN INVITRO STUDY is a bonafide and genuine research work carried out by me under the guidance of **Dr. A.KALYAN CHAKRAVARTHY** M.D.S, Professor and Head of the Department, Department of Oral and maxillofacial Prosthodontics& Implantology, Meghna Institute of Dental Sciences, Nizamabad,

Date: 25-01-2021

*Amulya*  
Signature of the candidate

Place: Nizamabad

(Dr. K S AMULYA)

*Pratibha*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.**

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "**COMPARATIVE EVALUATION OF SHEAR BOND STRENGTH OF ACRYLIC TEETH WITH HEAT POLYMERIZED ACRYLIC RESINS USING DIFFERENT SURFACE TREATMENTS AND CURING CYCLES**" –AN INVITRO STUDY is a bonafide research work done by  
**Dr. K S AMULYA** in partial fulfilment of the requirement for the degree of  
**Master of Dental Surgery** in Department of Oral and maxillofacial Prosthodontics  
& Implantology

Date: 25-01-2021

Place: Nizamabad

Signature of the Guide

**Dr. A. KALYAN CHAKRAVARTHY** M.D.S.,  
Professor, HOD, Department of  
Oral and maxillofacial  
Prosthodontics & Implantology

**PROFESSOR & HOD**  
Department of Prosthodontics  
MIDS NIZAMABAD

*Pratibha*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD




# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. K S AMULYA bearing registration no.: 18203107001D pursuing post-graduation from 2018-2021 in the Department Of Oral and Maxillofacial Prosthodontics, Meghna Institute of Dental Sciences, Nizamabad, as submitted the dissertation entitled "**COMPARATIVE EVALUATION OF SHEAR BOND STRENGTH OF ACRYLIC TEETH WITH HEAT POLYMERIZED ACRYLIC RESINS USING DIFFERENT SURFACE TREATMENTS AND CURING CYCLES**" –AN INVITRO STUDY as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
**Dr. A. KALYAN CHAKRAVARTHY., M.D.S**  
Vice principal, Professor & HOD  
Department of Oral and maxillofacial  
Prosthodontics  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

**PROFESSOR & HOD**  
Department of Prosthodontics  
MIDS NIZAMABAD

  
**Dr. M. PRATAP KUMAR., M.D.S.**  
Principal & HOD, Department of  
Conservative Dentistry  
& Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad. Telangana State.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

Date: 25-01-2021

Place: Nizamabad

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**"EVALUATION AND COMPARISON OF THE POROSITIES IN THE ACRYLIC  
MANDIBULAR DENTURE BASES PROCESSED BY TWO DIFFERENT CURING  
CYCLES, USING TWO DIFFERENT BRANDS OF COMMERCIALY AVAILABLE  
DENTURE BASE RESINS" - AN INVITRO STUDY**



By

**Dr. K.KIRAN BABU**

Registration No : 18203107003D

Dissertation Submitted to

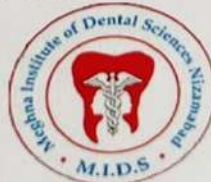
**KNR UNIVERSITY OF HEALTH SCIENCES,  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORAL AND MAXILLOFACIAL PROSTHODONTICS & IMPLANTOLOGY**



Meghna Institute of Dental Sciences  
Nizamabad-503 003  
Telangana state  
2018-2021

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

KNR UNIVERSITY OF HEALTH SCIENCES, WARANGAL,  
TELANGANA.

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "EVALUATION AND COMPARISON OF THE POROSITIES IN THE ACRYLIC MANDIBULAR DENTURE BASES PROCESSED BY TWO DIFFERENT CURING CYCLES, USING TWO DIFFERENT BRANDS OF COMMERCIALY AVAILABLE DENTURE BASE RESINS". -AN INVITRO STUDY is a bonafide and genuine research work carried out by me under the guidance of Dr. VEERENDRA PRASAD M.D.S, Reader and Guide, Department of Oral and maxillofacial Prosthodontics & Implantology, Meghna Institute of Dental Sciences, Nizamabad.

Date: 02.02.2021

K. Kiran..  
Signature of the candidate

Place: Nizamabad.

(Dr. K KIRAN BABU)

*K. Kiran..*  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.**

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled “**EVALUATION AND COMPARISON OF THE POROSITIES IN THE ACRYLIC MANDIBULAR DENTURE BASES PROCESSED BY TWO DIFFERENT CURING CYCLES, USING TWO DIFFERENT BRANDS OF COMMERCIALY AVAILABLE DENTURE BASE RESINS**”- AN INVITRO STUDY is a bonafide research work done by **Dr. K KIRAN BABU** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Oral and maxillofacial Prosthodontics & Implantology

Date: 02.02.2021

Place: Nizamabad

Signature of the Guide

**Dr. B.VEERENDRA PRASAD**  
READER M.D.S.,

Department of Oral and  
maxillofacial Prosthodontics &  
Implantology

**READER**  
Dept. of Prosthodontics  
MIDS-NIZAMABAD.

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



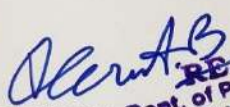
# MEGHNA INSTITUTE OF DENTAL SCIENCES


(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. K KIRAN BABU bearing registration no.:18203107003D pursuing post-graduation from 2018-2021 in the Department Of Oral and maxillofacial Prosthodontics, Meghna Institute Of Dental Sciences, Nizamabad, as submitted the dissertation entitled “ **EVALUATION AND COMPARISON OF THE POROSITIES IN THE ACRYLIC MANDIBULAR DENTURE BASES PROCESSED BY TWO DIFFERENT CURING CYCLES, USING TWO DIFFERENT BRANDS OF COMMERCIALLY AVAILABLE DENTURE BASE RESINS**”-AN INVITRO STUDY as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
**Dr. B.VEERENDRA PRASAD, M.D.S**  
Reader,Guide  
Department of Oral and maxillofacial  
Prosthodontics  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

  
**Dr. M. PRATAP KUMAR., M.D.S.**  
Principal & HOD, Department of  
Conservative Dentistry &  
Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad. Telangana State.

  
**DR. A. KALYAN CHAKRAVARTHY., M.D.S**  
Vice Principal, Professor & HOD  
Department of Oral and maxillofacial Prosthodontics,  
Meghna Institute of Dental Sciences, Nizamabad.

Date: 02.02.2021

**PROFESSOR & HOD**  
Department of Prosthodontics  
MIDS NIZAMABAD

Place: Nizamabad.

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "COMPARATIVE EVALUATION OF FLEXURAL STRENGTH OF DENTURE BASE RESINS REINFORCED WITH NATURAL AND SYNTHETIC FIBERS"

- AN INVITRO STUDY



By

Dr. E.RAJITHA

REG NO -18203107002D

Dissertation submitted to the  
KALOJI NARAYANA RAO UNIVERSITY OF HEALTH  
SCIENCES,

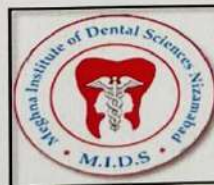
Warangal, Telangana

In partial fulfilment of the requirements for the degree of

MASTER OF DENTAL SURGERY

In the speciality of

ORAL AND MAXILLOFACIAL PROSTHODONTICS & IMPLANTOLOGY



MEGHNA INSTITUTE OF DENTAL SCIENCES

NIZAMABAD-503 003

TELANGANA STATE

2018-2021

*Pontu R.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)


Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## DECLARATION BY THE CANDIDATE

I hereby declare that this dissertation entitled "**COMPARATIVE EVALUATION OF FLEXURAL STRENGTH OF DENTURE BASE RESINS REINFORCED WITH NATURAL AND SYNTHETIC FIBERS**" - *AN INVITRO STUDY* is a bonafide and genuine research work carried out by me under the guidance of **Dr. A. KALYAN CHAKRAVARTHY, M.D.S.**, Professor and Head of the Department, Department of oral and maxillofacial prosthodontics & implantology, Meghna institute of dental sciences, Nizamabad.

Date: 14/04/21

Place: Nizamabad

  
Signature of the candidate  
(Dr.E.RAJITHA)

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 503003, TELANGANA STATE.**

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled "**COMPARATIVE EVALUATION OF FLEXURAL STRENGTH OF DENTURE BASE RESINS REINFORCED WITH NATURAL AND SYNTHETIC FIBERS - AN INVITRO STUDY**" is a bonafide research work done by **Dr. E.RAJITHA** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** Department of oral and maxillofacial prosthodontics & implantology, Meghna institute of dental sciences, Nizamabad.

Date: 14/04/21  
Place: Nizamabad

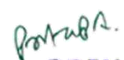
  
**PROFESSOR & HOD**  
Department of Prosthodontics  
M.I.D.S. NIZAMABAD

Signature of the Guide

**Dr. A. KALYAN CHAKRAVARTHY.,M.D.S**

Vice Principal, Professor and HOD

Department of oral and maxillofacial  
prosthodontics & implantology.



**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. E.RAJITHA bearing Registration No. **18203107002D** pursuing post-graduation from 2018-2021 in the Department of oral and maxillofacial prosthodontics & implantology, Meghna Institute of Dental Sciences, Nizamabad, has submitted the dissertation entitled "**COMPARATIVE EVALUATION OF FLEXURAL STRENGTH OF DENTURE BASE RESINS REINFORCED WITH NATURAL AND SYNTHETIC FIBERS - AN INVITRO STUDY**" as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

**PROFESSOR & HOD**  
Department of Prosthodontics  
MDS NIZAMABAD

**Dr. A.KALYAN CHAKRAVARTHY., M.D.S**  
Vice Principal, Professor, HOD & Guide,  
Department of oral and maxillofacial  
prosthodontics & implantology,  
Meghna institute of dental sciences,  
Nizamabad.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.  
Principal & Professor  
Department of Conservative  
Dentistry & Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad.Telangana State.

Date: 14/04/21

Place: Nizamabad

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Website : www.meghnadentalcollege.ac.in

## "COMPARATIVE EVALUATION OF CRESTAL BONE LEVEL BETWEEN ALUMINA-BLASTED /ACID -ETCHED SURFACE TREATED IMPLANT AND CALCIUM PHOSPHATE SURFACE TREATED IMPLANT"

- AN INVIVO STUDY



By

**DR.GATTU BALRAM PRAMOD KUMAR**

Registration no.: 19203107001D

Dissertation Submitted to the

**KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES  
WARANGAL, TELANGANA**

In Partial Fulfilment of the requirements for the degree of

**MASTER OF DENTAL SURGERY**

In the speciality of

**ORAL AND MAXILLOFACIAL PROSTHODONTICS & IMPLANTOLOGY**



**MEGHNA INSTITUTE OF DENTAL SCIENCES  
NIZAMABAD-503 003  
TELANGANA STATE  
2019-2022**

*Potkura*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456

E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

KALOJI NARAYANA RAO UNIVERSITY OF HEALTH SCIENCES  
WARANGAL, TELANGANA

## DECLARATION BY THE CANDIDATE



I hereby declare that this dissertation entitled "**COMPARATIVE EVALUATION OF CRESTAL BONE LEVEL BETWEEN ALUMINA-BLASTED /ACID -ETCHED SURFACE TREATED IMPLANT AND CALCIUM PHOSPHATE SURFACE TREATED IMPLANT**" - AN INVIVO STUDY is a bonafide and genuine research work carried out by me under the guidance of **Dr. A.KALYAN CHAKRAVARTHY** M.D.S, Professor and Head of the Department, Department of Oral and maxillofacial Prosthodontics & Implantology, Meghna Institute of Dental Sciences, Nizamabad,

Date: 30/12/21

Place: Nizamabad

G.B. Pramod Kumar

Signature of the candidate

(Dr. GATTU BALRAM PRAMOD KUMAR)

P. K. R. A.

PRINCIPAL

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

**MEGHNA INSTITUTE OF DENTAL SCIENCES,  
NIZAMABAD – 500 003, TELANGANA STATE.**

## CERTIFICATE BY THE GUIDE

This is to certify that the dissertation entitled ***“COMPARATIVE EVALUATION OF CRESTAL BONE LEVEL BETWEEN ALUMINA-BLASTED /ACID –ETCHED SURFACE TREATED IMPLANT AND CALCIUM PHOSPHATE SURFACE TREATED IMPLANT” - AN INVIVO STUDY*** is a bonafide research work done by **Dr. GATTU BALRAM PRAMOD KUMAR** in partial fulfilment of the requirement for the degree of **Master of Dental Surgery** in Department of Oral and maxillofacial Prosthodontics & Implantology

Date: 30/12/21

Place: Nizamabad

Signature of the Guide

**Dr. A. KALYAN CHAKRAVARTHY** M.D.S.,

Professor, HOD, Department of  
Oral and maxillofacial  
Prosthodontics & Implantology

**PROFESSOR & HOD**  
Department of Prosthodontics  
MIDS NIZAMABAD

*Potkura*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : **VELS EDUCATION SOCIETY**)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : [info@meghnadentalcollege.ac.in](mailto:info@meghnadentalcollege.ac.in) Website : [www.meghnadentalcollege.ac.in](http://www.meghnadentalcollege.ac.in)

---

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD





# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : VELS EDUCATION SOCIETY)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)

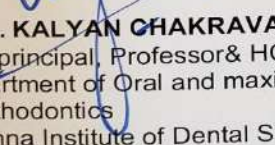
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)

Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456


E-mail : info@meghnadentalcollege.ac.in Webbsite : www.meghnadentalcollege.ac.in

## Certificate

This is to certify that Dr. GATTU BALARAM PRAMOD KUMAR bearing registration no.: 19203107001D pursuing post-graduation from 2019-2022 in the Department Of Oral and Maxillofacial Prosthodontics, Meghna Institute of Dental Sciences, Nizamabad, as submitted the dissertation entitled "**COMPARATIVE EVALUATION OF CRESTAL BONE LEVEL BETWEEN ALUMINA-BLASTED /ACID -ETCHED SURFACE TREATED IMPLANT AND CALCIUM PHOSPHATE SURFACE TREATED IMPLANT**" - AN INVIVO STUDY as a requirement for the degree of Master of Dental Surgery. This thesis is an original work done under our personal guidance and supervision.

  
Dr. A. KALYAN CHAKRAVARTHY., M.D.S  
Vice principal, Professor & HOD  
Department of Oral and maxillofacial  
Prosthodontics  
Meghna Institute of Dental Sciences,  
Nizamabad. Telangana State.

**PROFESSOR & HOD**  
Department of Prosthodontics.  
MIDS NIZAMABAD

  
Dr. M. PRATAP KUMAR., M.D.S.  
Principal & HOD, Department of  
Conservative Dentistry &  
Endodontics,  
Meghna Institute of Dental Sciences  
Nizamabad. Telangana State.

**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.

Date: 30/12/21

Place: Nizamabad

  
**PRINCIPAL**  
Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD.



# MEGHNA INSTITUTE OF DENTAL SCIENCES

(Managed by : **VELS EDUCATION SOCIETY**)

Permitted by Govt. of India, Ministry of Health & F.W. (DE Section & DCI, New Delhi)  
Affiliated to K.N.R. University of Health Sciences, Warangal (T.S)  
Mallaram Vill., Varni Road, Nizamabad-503 003. (T.S) Ph : 9505445456  
E-mail : [info@meghnadentalcollege.ac.in](mailto:info@meghnadentalcollege.ac.in) Website : [www.meghnadentalcollege.ac.in](http://www.meghnadentalcollege.ac.in)

---

*Pankaj A.*

**PRINCIPAL**

Meghna Institute of Dental Sciences  
MALLARAM (V), NIZAMABAD